

February 1961

Volume 7 Number 2

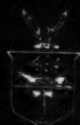
# CONSTRUCTION REVIEW

- *Expenditures*
- *Starts*
- *Materials*
- *Awards*
- *Permits*
- *Costs*
- *Employment*

641.3213  
**CONSTRUCTION  
in  
HAWAII**

**DISTRIBUTION OF WATER  
AND SEWER UTILITIES CAPITAL  
EXPENDITURES IN 1958**

DOCUMENTS  
MAR 13 1961  
Duke University Library



U.S. DEPARTMENT OF COMMERCE  
Business and Defense Services Administration

**U. S. DEPARTMENT OF COMMERCE**

**Luther H. Hodges, Secretary**

**Business and Defense Services Administration**

**William A. White, Sr., Administrator**

**Construction Industry Division**

**Benjamin D. Kaplan, Acting Director**

---

**Prepared under the editorial direction of**

**Aaron Sabghir, Senior Economist**

**Philip J. Schneider, Editorial Assistant**

**Annual subscription—\$3.00 domestic; \$4 foreign—Available from Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C., or nearest Department of Commerce field office.**

**Single copy—30 cents—Available only from U. S. Department of Commerce, Sales and Distribution Section, Washington 25, D. C., or any Field Office.**

# CONSTRUCTION REVIEW

## CONTENTS

	PAGE
CONSTRUCTION...AT A GLANCE.....	2
THE ECONOMY...AT A GLANCE.....	3
CONSTRUCTION COMMENTS	
Another Look At Housing Starts.....	4
FEATURES:	
Construction in Hawaii.....	5
Distribution of Water and Sewer Construction Expenditures in 1958.....	11
STATISTICAL SERIES:	
Part A—Construction Put in Place.....	14
Part B—Housing.....	20
Part C—Building Permits.....	27
Part D—Contract Awards.....	35
Part E—Costs and Prices.....	39
Part F—Construction Materials.....	44
Part G—Contract Construction Employment.....	50
Index to Tables.....	Inside back cover

*(The above series include data for Alaska and Hawaii unless otherwise noted.)*

Contents of this publication emanating from governmental sources are not copyrighted and may be reprinted freely. Mention of CONSTRUCTION REVIEW as the source will be appreciated. Data credited to private sources appear here through special arrangements and are still subject to the copyrights of the compilers.

*Use of funds for printing this publication approved by the Director of the Bureau of the Budget (January 17, 1961).*

## CONSTRUCTION . . . At a Glance

Indicator	Current period 1 year ago	Previous period	Current period	Current reference period
Value put in place: (In billions of dollars) Total new construction	54.7	56.4	55.3	January 1961 Seasonally adjusted annual rate
Private construction	39.9	38.6	38.2	January 1961 Seasonally adjusted annual rate
Public construction	14.8	17.8	17.1	January 1961 Seasonally adjusted annual rate
Private housing starts (Thousands of units)	1,451	1,212	990	December 1960 Seasonally adjusted annual rate
Number of FHA applications, new private nonfarm dwelling units (In thousands)	27.1	18.9	19.9	December 1960
Contract awards: (In millions of dollars) Total public contract awards	831	1,083	993	November 1960
Highways contract awards	303	455	317	November 1960
F. W. Dodge Corp. index of contract awards (1947-49 = 100)	244	280	302	December 1960 Seasonally adjusted
Department of Commerce composite cost index (1947-49 = 100)	142	144	144	November 1960
Composite materials output index (1947-49 = 100)	116.0	131.3	114.7	October 1960 Seasonally adjusted
Wholesale price index, all construction materials (1947-49 = 100)	134.9	130.3	130.0	December 1960
Contract construction employment: Number of employees (In thousands)	2,800	2,789	2,624	December 1960 Seasonally adjusted
Average hourly earnings	3.19	3.32	3.32	November 1960
Average weekly hours	35.7	37.8	35.3	November 1960



# THE ECONOMY . . . At a Glance

Indicator	Current period 1 year ago	Previous period	Current period	Current reference period
Gross national product (In billions of dollars)	486.4	503.5	503.5	Fourth quarter 1960 Seasonally adjusted annual rate
Personal saving (In billions of dollars)	22.8	29.2	26.1	Fourth quarter 1960 Seasonally adjusted annual rate
Government purchases of goods and services (In billions of dollars)	96.4	100.7	101.7	Fourth quarter 1960 Seasonally adjusted annual rate
Corporate profits after taxes (In billions of dollars)	22.9	23.4	21.3	Third quarter 1960 Seasonally adjusted annual rate
New plant and equipment expendi- tures (In billions of dollars)	35.2	35.6	34.9	First quarter 1961 (anticipated) Seasonally adjusted annual rate
Retail sales (In billions of dollars)	18.1	18.0	17.7	January 1961 (advance estimate) Seasonally adjusted annual rate
Consumer credit outstanding (In billions of dollars)	52.1	54.6	56.0	December 1960
Manufacturing inventories (In billions of dollars)	52.4	54.0	53.7	December 1960 Seasonally adjusted annual rate
Manufacturers' unfilled orders (In billions of dollars)	51.5	45.8	45.7	December 1960 End of the month, unadjusted
Industrial production index (1957=100)	109	105	103	December 1960 Seasonally adjusted
Wholesale industrial prices index (1947-49=100)	128.6	127.9	127.9	December 1960
Nonagricultural employment (In millions)	59.4	61.1	59.8	January 1961
Unemployment (As a percent of the civilian labor force)	5.3	6.8	6.6	January 1961 Seasonally adjusted
Average weekly hours worked in manufacturing industries	40.3	38.6	38.6	January 1961

## Construction Comments

### ANOTHER LOOK AT HOUSING STARTS

During most of 1960 it was particularly difficult to assess the direction of change in seasonally-adjusted private nonfarm housing starts. This was due to the fact that nine of the twelve monthly changes represented a reversal of direction. The following tabulation shows the monthly changes for 1960, at seasonally adjusted annual rates, measured from the December 1959 level of 1,401,000 units:

January .....	down 110,000	July .....	down 121,000
February .....	up 56,000	August .....	up 109,000
March .....	down 249,000	September .....	down 229,000
April .....	up 209,000	October .....	up 180,000
May .....	up 8,000	November .....	down 21,000
June .....	down 30,000	December .....	down 219,000

A comparably unstable group of monthly changes cannot be found in any other year in the entire post World War II period. In 1951, for example, when the decline in starts from the previous year was comparable to that of 1960, there was no erratic pattern. The direction was clear: steady declines from the January peak through April 1959, and then essential stability for the rest of the year.

The 1960 pattern of shifting directions in the monthly changes has undoubtedly resulted in large part from the necessarily tentative method of seasonally adjusting the new housing starts series (*Construction Review*, June 1960, p. 9). Consequently, the seasonally adjusted figures for 1959 and 1960 in the new series have lacked the essential smoothness which such figures should ideally possess. This has decidedly complicated the current analysis of housing start data.

In retrospect, it is quite easy to discern the patterns of the change in housing starts during 1960 by converting the monthly seasonally adjusted data into a quarterly series. This is done by averaging the three seasonally adjusted monthly figures in each quarter. This process tends to smooth out much of the irregularity in the monthly figures. The following table presents private nonfarm housing starts at seasonally adjusted annual rates for the four quarters of 1960:

1st quarter .....	1,245,000
2nd quarter .....	1,302,000
3rd quarter .....	1,159,000
4th quarter .....	1,133,000

The pattern now becomes quite clear. The annual rate of housing starts dropped in the second half of 1960 to about 125,000 fewer units than in the first half.

In interpreting the movement of housing starts within the second half of 1960, some allowance must be made for the particularly unfavorable weather conditions in December, which undoubtedly reduced housing starts substantially below normal seasonal expectations for that month. The particularly severe December weather was not, of course, offset by the adjustment for seasonal variation. If an allowance were made, however, it would suggest that the fourth quarter is at least equal to the third or perhaps is slightly higher. The drop from the first to the second half of the year was probably not significantly affected by the severe December weather because that month was offset by especially bad weather in March 1960, which appears to have had a comparably unfavorable affect in the volume of housing starts in the first half of the year.

The decline in seasonally adjusted housing starts from the first to the second half of 1960 occurred despite the increase in the supply of mortgage money and the slight easing of financing costs. This decline resulted from both general recessionary trends and adverse factors in the demand for housing. It is expected that the recent reduction in the maximum allowable interest rate on FHA loans from 5 3/4 percent to 5 1/2 percent will help reverse the downtrend in starts of the past year. The housing situation will also be favorably affected by other governmental actions which may be taken to stimulate the general economy.

## Construction in Hawaii, 1947-70

(This article is based on *Markets for Materials in Construction in Hawaii*, by Milton C. Baldridge, Jr., a 1959 Stanford Research Institute (Menlo Park, California) report prepared for the former Territory of Hawaii Economic Planning and Coordination Authority, Honolulu. Highlights of the study are presented here with permission of the Institute because, in addition to its continuing importance to the National defense, Hawaii is the object of general interest as a new State of the Union. Although Hawaii accounts for a small part of total U. S. construction activity, its outlays are directed to many projects that may interest contractors, building materials manufacturers, and investors on the U. S. mainland).

In 1958, the latest year for which data are available, contract construction put in place in Hawaii amounted to about \$175 million (table 1). This represents a current-dollar-value increase of 140 percent over 1947. However, the rise in physical volume amounted to less than 50 percent, the difference being due to an increase of about 63 percent in construction costs. The physical volume is expected to rise by 25 percent between 1958 and 1966-70. In terms of 1959 dollars, the value of total contract construction rose from \$122 million in 1947 to \$181 million in 1958, and is expected to rise to an average annual rate of \$230 million in 1966-70.

Although an uptrend was clearly discernible in the 1947-58 period, contraction occurred during the 1948-50 and 1953-55 periods. The low point in the 11 years came in 1949, when the physical volume of contract construction fell to about half of the 1958 figure.

Construction in Hawaii is influenced primarily by activity on the island of Oahu, which, although representing only a modest portion of the total land area of the Hawaiian Islands,<sup>1</sup> accounted for about 90 percent of total construction in 1947-58. Oahu contains about 75 percent of the resident civilian population of Hawaii, and it has a much larger per capita income than the other islands. These characteristics are due in large part to the location on

Oahu of the Pearl Harbor naval base and other military facilities and to the fact that this island includes the large city of Honolulu and its excellent harbor facilities. At the same time, the neighboring islands, which had declined somewhat in relative importance in the 11-year period, are expected to increase construction put in place at a somewhat faster rate than Oahu in 1958-70.

On Oahu, over two-fifths of the anticipated \$45-million expansion between 1958 and 1970 is expected in the commercial and industrial category, about one-fifth in residential, and one-seventh in nonbuilding construction, particularly in highways and streets, which are being stimulated by the Federal Highway Program. Modest expansion is foreseen also in construction of schools and other public buildings, and in additions, alterations, and repairs. Military construction is expected to move up only slightly, but this expectation is subject to international developments.

About half of the projected \$12 million expansion of construction on the neighboring islands stems from increased spending for highways under the Federal program. Other relatively important areas of anticipated increased construction are water projects and hotel building.

### DEMOGRAPHIC AND ECONOMIC BACKGROUND

The population of Hawaii comprises four major components; namely, military personnel, dependents of military personnel, residents not connected with the military, and visitors. Table 2 presents, by island, population data for the resident civilian population, which is defined as including both residents not connected with the military and dependents of military personnel. This population totalled 559,000 in 1958, up about 7 percent from 1947. The increase between 1958 and 1970 is expected to be nearly 30 percent, as improving economic opportunities reduce the rate of emigration. The anticipated population rise is concentrated on Oahu. The increase expected in the less-prosperous neighboring islands is only 10 percent, the estimate for 1970

<sup>1</sup>The Hawaiian islands fall geographically and administratively into four county divisions, each representing an island or cluster of islands. They are the county and city of Honolulu, whose principal land area is the island of Oahu; the county of Maui, which includes the islands of Maui, Molokai, and Lanai; the county of Hawaii, which embraces the island of Hawaii; and the county of Kauai, which includes the islands of Kauai and Niihau. (Kalawao County, which occupies a small area of the island of Molokai, is not considered separately in this study, but is combined with Maui County.) In both the discussion and tables, these four will be referred to as Oahu, Maui, Hawaii, and Kauai, respectively.

being about 10 percent under the 1947 figure. The 1970 projection for Oahu represents a 60-percent rise from 1947.

The losses of population through emigration since 1947 have been more persistent in the neighboring islands than in Oahu, reflecting the superior economic conditions in the latter island. However, Oahu has been subject to some substantial emigrating movements; population dropped by more than 30,000 persons from 1947 to 1950, presumably because of emigration to the mainland for economic reasons. The subsequent reverse movement has been due in large part to the influx of military dependents. Future net changes in military dependents will presumably be small, and economic growth is expected to provide adequate job opportunities on Oahu to hold the population and perhaps even encourage some immigration.

Table 2 presents in constant 1947 dollars personal income for Hawaii, by island, for selected years, 1947 through 1970. The apparent overall rate of growth of the Hawaiian economy in the 1947-57 period, after eliminating the influence of inflation, was about 2 percent a year, and in 1950-57, about 4 percent. These compare with growth rates for the United States as a whole of 3.8 and 3.3 percent, respectively.<sup>2</sup> Future growth in Hawaii is estimated at an annual rate of 2.5 to 3.0 percent.

The projections of personal income imply that per capita constant dollar income will increase gradually by about 1 percent a year in the next decade and that, despite an improvement in the economies of the neighboring islands, Oahu will continue to be the major growth area. In 1957 Oahu had 75 percent of the total population, who received about 86 percent of the total personal income in Hawaii; estimates for 1970 are 80 percent and 88 percent, respectively. Per capita personal income is nearly twice as large in Oahu as in the neighboring islands.

#### CONSTRUCTION ACTIVITY PROJECTIONS

Detailed projections of construction activity through 1970 are now available for each of the four main subdivisions. The latest actual data pertain to 1958, but the projections have been made in 1959 dollars. Thus, although the comparisons of the projections with 1958 levels reflect primarily changes in physical volumes, they also reflect the 4-percent increase in construction costs between 1958 and 1959.

#### Oahu

Table 3 summarizes for Oahu the projections of contract construction activity through 1970, in 1959 dollars, and gives actual dollar expenditures in 1958. Oahu accounts for about 90 percent of total construction activity in Hawaii and, therefore,

dominates the overall Hawaiian picture. Total construction put in place on Oahu in 1958 was valued at about \$161 million, and estimated at \$184 million in 1959-60. Annual estimates for the future, in 1959 dollars, are \$189 million in 1961-65, and \$205 million in 1966-70.

In 1958, residential construction accounted for 41 percent of total construction put in place, commercial and industrial 17 percent, nonbuilding 15 percent, military 11 percent, institutional and public 10 percent, and additions, alterations, and repairs 6 percent. By 1966-70, commercial and industrial construction is expected to rise to 23 percent of total construction, while residential construction drops to 37 percent and military construction to 9 percent. However, all groups will increase in absolute amounts in 1958-70.

**Residential Construction:** Total residential construction on Oahu amounted to over \$65 million in 1958, and is expected to rise to about \$75 million by 1966-70.

Residences put in place for military personnel under the Capehart Program amounted to \$17 million in 1958, and an additional \$22 million annually was expected in 1959-60. The Capehart Program appears likely to taper off in the future. The average Capehart unit construction cost is about \$11,700, the balance of the total unit cost of \$16,000-\$16,500 being for such items as design, site improvements, and contractors' overhead and profit.

Annual public housing expenditures of \$3.6 million are estimated for 1961 through 1970.

New private housing units constructed in 1958 totaled 5,600, not including 1,500 Capehart units; 4,500 represented an increase in the inventory of houses, and 1,100 were replacement units. The total inventory of housing units in January 1959 was 117,000. Occupants per unit averaged 3.73 compared with 3.4 persons 4 years earlier. A gradual return to the 3.4 ratio is expected by 1970.

The estimated annual average number of new units through 1970, other than Capehart units, are as follows:

	New private units	* Increase in inventory	Replace- ments
1959-60 .....	5,700	4,500	1,200
1961-65 .....	6,600	5,300	1,300
1966-70 .....	7,900	6,400	1,500

In 1958, about 45 percent of the 5,600 private residential units constructed were in apartment buildings, but the proportion is expected to drop to 40 percent, as service families find housing in Capehart developments.

The average 1958 building cost per single-family residence was \$10,200, according to a study of a

<sup>2</sup>Based on gross national product in constant dollars.

large sample. The value excludes the cost of land, site improvements, design, and contractors' over-

head and profit. Following are the units sampled, by broad cost groups:<sup>3</sup>

Cost range	Number of units	Total building cost	Average building cost
Under \$8,000.....	1,180	\$7,800,000	\$6,600
\$8,001-12,000.....	1,370	13,600,000	9,900
12,001-17,000 .....	320	4,900,000	15,300
17,001-25,000 .....	150	3,000,000	20,000
Over 25,000 .....	70	2,400,000	35,000

The rise in the average constant dollar cost per single-family house in the next decade is expected to be small. A tendency to upgrade housing as per capita income rises will be largely offset by an anticipated broadening of the housing market among the lower income groups.

In multifamily construction also, constant dollar unit costs are expected to rise only slightly between

1958 and 1966-70. This minor increase stems primarily from an expected shift toward larger buildings, which involve higher costs per dwelling unit, as land becomes scarcer in the Honolulu area. The average building cost per multifamily unit, based on 50 percent of the permits issued in 1958, was \$6,700. The unit cost increased with the size of the apartment house, as shown below:

Units per building	Number of units	Total building cost	Building cost per unit
2-3 .....	220	\$1,100,000	\$5,100
4-8 .....	900	5,400,000	6,000
9-16.....	750	4,800,000	6,500
Over 16 .....	630	5,600,000	8,900

Following is the distributions of units anticipated in the 1961-65 and 1966-70 periods, indicating

only a negligible rise in average cost per multifamily unit, from about \$6,700 to \$6,800.

1961-65		1966-70	
Units per building	Number of units	Number of units	Total building cost
2-3 .....	210	220	\$1,100,000
4-8 .....	910	1090	5,500,000
9-16.....	800	1020	6,600,000
Over 16 .....	680	870	7,700,000

**Commercial and Industrial Construction:**<sup>4</sup> Commercial and industrial construction, in 1958 totaling \$27.6 million, or 17 percent of total construction, is expected to rise to an annual average of \$47.2 million in 1966-70, or 23 percent of the total. Mercantile building, which includes stores, restaurants, and the like, accounted for four-fifths of this category; although an increase in absolute value

from \$22.0 to \$28.5 million annually is expected in 1966-70, the proportion will probably drop to three-fifths.

The largest increases in commercial and industrial construction are expected in hotel and industrial projects. A considerable amount of hotel construction is needed in Oahu. In 1959-60, the average annual addition of hotel rooms was estimated at 700. An 800-room average annual addition is expected in 1961-70. At an estimated average construction cost of approximately \$8,300 per room, the projected value of hotel construction would rise from the \$1.3 million rate of 1958 and an estimated \$5.9 million in 1959-60 to \$6.8 million in 1961-70.

These figures are based upon Hawaii Visitors' Bureau estimates of the increases in overnight visitors, assuming maintenance of the current average year-round occupancy rate of about 80 percent. The estimates are conservative because they do not allow for any demolition and replacement. If

<sup>3</sup>Source: Estimated by Stanford Research Institute from building permits of city and county of Honolulu, 1958, and FHA Report No. 4 of the Committee on Construction of Family Housing in Hawaii, November 1958.

<sup>4</sup>Hotel construction has been included as part of the commercial and industrial category. This differs from the practice in Construction Review of classifying hotel construction under the nonhouse-keeping subdivision of private nonfarm residential construction.



these facilities are not built, the anticipated increase in tourist trade may not materialize, potential tourists discouraged by lack of accommodations.

Although the industrial and other commercial categories have not expanded in recent years, the growing population and income seem to offer attractive opportunities. The growth pattern indicates an increase from \$3.3 million in 1958 to \$8.0 million in 1959-60, \$9.0 million in 1961-65, and \$9.7 million in 1966-70. New construction projects include a refinery (total investment, \$40 million, construction cost almost \$8 million<sup>5</sup>), and a cement plant (total investment \$12 million, construction cost \$3-4 million<sup>5</sup>).

If this momentum in industrial construction is not sustained, the result may be a slower income growth rate and some emigration, which would be reflected in reduced activity in many other types of construction. No other single element is so important to Hawaii's economic future as the course of industrial development.

**Public and Institutional Construction:** Construction of schools and other public and institutional buildings rose from \$16.1 million in 1958 to an estimated \$17.9 million annually in 1959-60. Annual projections beyond 1960 are \$24.2 million in 1961-65 and \$19.8 million in 1966-70. This category would represent 10 percent of total construction in most of these periods, but 13 percent in 1961-65, owing to the planned construction of two public projects, a new State capitol for Hawaii and a new Honolulu International Airport. A school construction expenditures account for about half of the public and institutional building category except in 1961-65, when the relative share of this segment is shown to fall off somewhat owing to the two public projects just listed.

**Nonbuilding Construction:** The nonbuilding category as a whole, highways and streets, water systems, sewers, and other utilities, accounts for about 15 percent of total construction expenditures on Oahu in all periods shown. All subdivisions except highways and streets are expected to rise at a rate somewhat less than that of total construction activity; however, highways and streets, which account for nearly half of the nonbuilding category, are expected to move up at an appreciably faster rate than total construction. The stimulus of the Federal highway program is, of course, a significant factor in this rapid expansion.

The estimates for water systems include water mains, reservoirs, and pumping stations. In the case of sewers, they include sewer lines and treatment and pumping stations. In the case of the other utilities, light, telephone, and gas, they represent only the plant portion of plant and equipment expenditures. In addition to the equipment expenditures, outlays by other utilities for office buildings,

warehouses, and other facilities typical of other categories of construction were also excluded here because they are included in the respective other categories. Thus, the projections for other utilities cover only types of construction peculiar to those operations; for example, telephone lines, power transmission and distribution lines, power plants, substations, and gas distribution mains.

The miscellaneous category of other nonbuilding construction covers items such as harbor improvements and parks. Expenditures for this category, the smallest in the nonbuilding group, are shown to increase substantially between 1959 and 1965 owing to the proposed construction of new terminal facilities at Honolulu.

**Military Construction:** Estimates of military construction exclude Capehart housing and associated site work and services, and exclude work outside the Hawaiian Islands. They include all other forms of military construction.

Only a small increase is expected in military construction, from \$18 million in 1958 to \$19.0 million in 1966-70, a shift from 11 to 9 percent of the total construction budget.

**Additions, Alterations, and Repairs:** Only projects affecting building construction categories for which permits are issued by the city and county of Honolulu are included in additions, alterations and repairs expenditures. "Do-it-yourself" projects or work done by owners or by direct employees of owners are not included unless permits are issued. Expenditures in the nonbuilding and military construction categories are not included here, but are included with estimates of new construction in these categories. Additions, alterations, and repairs are expected to rise from \$9.9 million in 1958 to \$12.7 million in 1966-70, accounting for a steady 6 percent of total construction.

### The Neighboring Islands

Population and constant dollar personal income in the neighboring islands have been declining for a number of years (table 2). Hotel development seems to offer the only immediate economic stimulus. The widely discussed bauxite deposits are considered uneconomic for development at this time. Perhaps the most hopeful sign is that the decline in the employment in the sugar and pineapple industries is believed to have run its course.

However, the projected estimates are based on a belief that a turning point has been reached. They are predicated upon the ability of each county-island division to discover and exploit new opportunities in tourism, diversified agriculture, food processing, or other areas, such as are opening increasingly as byproducts of the industrialization and urbanization of Oahu.

The situation in each county indicates an encouraging construction outlook. Specific factors vary somewhat among the islands, but the greatest and

<sup>5</sup>Exclusive of contractors' overhead and profit.

most pervasive element of strength appears to be the accelerated public works spending by the Government of Hawaii on water development and better roads, the latter stimulated by the Federal aid program.

Total construction activity in the neighboring islands combined amounted to \$13.3 million in 1958, constituting only 7 percent of the total for the Hawaiian Islands. The projected annual rate of construction activity in 1966-70, \$25.4 million, is nearly double the 1958 rate and much greater than the 25-percent increase expected for Oahu. Construction activity in the neighboring islands would thus be expected to rise to 11 percent of total construction in Hawaii by 1966-70.

**Maui:** Total construction in Maui, estimated at \$3.4 million in 1958 and \$5.5 million in 1959-60 is projected at \$7.9 million in 1961-65, and \$7.7 million in 1966-70.

The spurt in activity is expected to come from (1) the increasing expenditures under the Federal highway program; (2) the Molokai immigration project; (3) plans of a large company to demolish its camps and to have an affiliate construct about 1,000 replacement housing units at an average cost of \$6,500; (4) an additional 1,000 residential units at an average cost of \$10,000 to \$10,500, both for replacement and to meet increasing demands stem-

ming from rising income; (5) new hotel construction at a rate of about \$200,000 per year, average room cost being about \$5,000; (6) modest increases for business buildings, school construction, and public works; and (7) additions, alterations, and repairs that are expected to follow the growth of new construction.

**Hawaii:** Total construction on the island of Hawaii in 1958 amounted to about \$7.4 million. An annual average of \$9.4 million was expected for 1959-60; the estimate for 1961-65 is \$9.7 million and for 1966-70, \$11.1 million.

The growth is expected to stem from increasing expenditures under the Federally aided highway program; the Kona water construction project, which is planned for the 1966-70 period; hotel construction; and gains in other types of construction, attributable to increases in income and population.

**Kauai:** Total construction in Kauai in 1958 amounted to approximately \$2.3 million. The construction volume in 1959-60 was about \$5.0 million annually. Projections for the 1961-65 and 1966-70 periods are \$6.7 and \$6.5 million, respectively, the increases being almost entirely for highway and water works construction. Building construction over the next 10 years is expected to remain approximately at 1958 levels.

Table 1.—Contract Construction Put-in-Place in Hawaii, 1947-70  
(In millions of current and constant 1959 dollars)

Year	Current dollar value					Total constant 1959 dollar value	Cost index (1947=100) <sup>4</sup>
	Oahu	Maui <sup>1</sup>	Hawaii	Kauai <sup>2</sup>	Total <sup>3</sup>		
1947.....	65.8	1.8	3.6	1.1	72.3	121.7	100
1948.....	65.5	1.8	4.5	1.5	73.4	114.5	108
1949.....	53.1	1.2	5.0	1.5	60.6	91.3	112
1950.....	60.2	1.2	4.9	1.4	67.8	96.3	119
1951.....	82.9	2.0	7.3	2.7	94.8	134.7	118
1952.....	88.6	1.7	5.2	2.4	97.8	133.2	124
1953.....	88.1	2.0	4.5	2.1	96.9	126.7	129
1954.....	87.5	1.6	3.4	2.1	94.7	119.7	133
1955.....	85.9	1.9	4.5	1.9	94.2	115.9	137
1956.....	101.9	1.6	4.6	2.4	110.5	126.9	146
1957.....	122.6	2.3	5.1	3.6	133.6	143.3	157
1958.....	162.8	2.7	7.0	1.0	174.4	181.0	163
1959-60 average.....	184.0	5.5	9.4	5.0	204.0	204.0	.....
1961-65 average.....	189.0	7.9	9.7	6.7	213.0	213.0	.....
1966-70 average.....	205.0	7.7	11.1	6.5	230.0	230.0	.....

<sup>1</sup> Includes adjacent islands of Molokai and Lanai, which are also part of Maui County. <sup>2</sup> Includes adjacent island of Niihau, which is also part of Kauai County. <sup>3</sup> Figures may not add to totals because of rounding. <sup>4</sup> The base year of the cost index has been shifted to 1947.

Source: Stanford Research Institute (Menlo Park, California). *Markets for Materials in Construction in Hawaii*. For contract construction the current dollar data were based on Territorial Tax Commission Reports on Gross Territorial Tax Base, Contracting. The constant dollar figures were computed by use of the index of construction costs, which was obtained from *Builders' Report*.



Table 2.—Civilian Population<sup>1</sup> and Personal Income in Hawaii, by Islands, Selected Years 1947-1970

Year	Civilian Population <sup>1</sup>					Personal Income (In millions of 1947 dollars <sup>2</sup> )				
	Oahu	Maui	Hawaii	Kauai	Total	Oahu	Maui	Hawaii	Kauai	Total
1947.....	358,000	56,000	74,000	35,000	524,000	n. a.	n. a.	n. a.	n. a.	721
1949.....	.....	.....	.....	.....	.....	494	52	75	33	654
1950.....	322,000	48,000	68,000	30,000	468,000	.....	.....	.....	.....	.....
1953.....	329,000	46,000	62,000	30,000	468,000	n. a.	n. a.	n. a.	n. a.	761
1956.....	380,000	46,000	62,000	29,000	515,000	.....	.....	.....	.....	.....
1957.....	.....	.....	.....	.....	.....	760	30	73	25	886
1958.....	424,000	44,000	62,000	29,000	559,000	.....	.....	.....	.....	.....
1960.....	450,000	47,000	62,000	30,000	589,000	844	32	71	25	970
1965.....	510,000	49,000	66,000	28,000	653,000	983	34	78	27	1,120
1970.....	574,000	49,000	71,000	28,000	722,000	1,077	35	81	27	1,220

n. a.—Not available. <sup>1</sup>Including civilian dependents of the military but excluding military personnel and average daily tourist population. <sup>2</sup>Current dollars deflated by implicit price deflators for personal consumption expenditures. <sup>3</sup>Detail may not add to totals because of rounding.

Sources: 1947-56—Estimated by Stanford Research Institute from reports of Territory of Hawaii Bureau of Health Statistics and annual reports of Hawaii Visitors Bureau. 1958-70—Estimated by Stanford Research Institute. 1947-57—U. S. Department of Commerce, Office of Business Economics, *Income of Hawaii*, Territory of Hawaii Bureau of the Budget estimates; 1960-70—estimated by Stanford Research Institute.

Table 3.—Estimated Value of Contract Construction Put-in-Place on Oahu, by Type, 1958-70  
(In millions of 1959 dollars<sup>1</sup>)

Type	1958 <sup>1</sup>	1959-60 average	1961-65 average	1966-70 average
New construction:				
Building:				
Residential:				
Private single family.....	31.7	34.7	41.6	49.8
Private multiple family.....	16.9	15.3	17.5	21.9
Capehart.....	17.0	22.0	.....	.....
Public.....	.....	.....	3.6	3.6
Total.....	65.6	72.0	62.7	75.3
Commercial and industrial <sup>2</sup> :				
Mercantile buildings.....	22.0	22.5	25.5	28.5
Office and professional.....	1.0	1.7	1.9	2.2
Hotels <sup>2</sup> .....	1.3	5.9	6.8	6.8
Industrial and other <sup>3</sup> .....	3.3	8.0	9.0	9.7
Total.....	27.6	38.1	43.2	47.2
Institutions and public:				
Schools.....	8.5	9.0	9.5	10.0
Other <sup>4</sup> .....	7.6	8.9	14.7	9.8
Total.....	16.1	17.9	24.2	19.8
Nonbuilding:				
Highways and streets.....	11.0	13.5	14.7	15.2
Water systems.....	2.5	2.7	2.7	3.0
Sewers.....	3.7	3.8	3.8	4.6
Other utilities <sup>5</sup> .....	6.3	6.5	6.5	7.6
Other.....	0.5	0.9	1.0	0.6
Total.....	24.0	27.4	28.6	31.0
Military.....	18.0	18.0	18.5	19.0
Total new construction.....	151.4	173.4	177.2	192.3
Additions, alterations, and repairs.....	9.9	10.6	11.8	12.7
Total construction.....	161.3	184.0	189.0	205.0

<sup>1</sup> 1958 figures in millions of 1958 dollars. <sup>2</sup> Hotel construction has been included as part of the commercial and industrial category. This differs from the practice in *Construction Review* of classifying hotel construction under the nonhousekeeping subdivision of private nonfarm residential construction. <sup>3</sup> Includes factory buildings, warehouses, garages, and service stations.

<sup>4</sup> Includes pro rata provision for \$27 million State Capitol and Honolulu International Airport in 1961-65 period. <sup>5</sup> Gas, electric, telephone.

Source: Estimated by Stanford Research Institute.

## Distribution of Water and Sewer Utilities Capital Expenditures in 1958

By Walter L. Picton\*

Expenditures for construction of water and sewerage facilities in the United States in 1958 amounted to nearly \$1.6 billion, according to estimates of BDSA's Water and Sewerage Industry and Utilities Division.

Materials and equipment expenditures led all others by a wide margin, amounting to \$822.6 million and accounting for 55 percent of the total cost of water utility construction and 50 percent of the total spent for sewerage utility construction. Labor costs, the second largest, amounted to \$437.5 million and represented 27 percent of the water utility and 29 percent of the sewerage utility costs. The balance of total expenditures, 18 and 21 percent, respectively, went for overhead, profit, equipment, rental and other charges and supplies.

Nearly \$317 million, or 20 percent of the total construction costs, went for pipe and fittings (including pipe fabricated locally or on the site). These items accounted for half the expenditures for material used in water facility construction. Although accounting for a much smaller proportion of sewerage utility costs, pipe and fittings were nevertheless the major material cost item, representing 24 percent of the total.

Materials for concrete accounted for almost 14 percent of the materials costs for water treatment plants and more than 25 percent for sewage treatment plants. Equipment for water and sewage treatment amounted to 23 and 25 percent, respectively, of total treatment plant materials costs.

Table I presents the estimated proportionate distribution of the 1958 construction for water utilities (broken down into treatment plant and distribution system) and sewerage utilities (broken down into treatment plant and collection system). These proportions will be of interest to suppliers, construction engineers, marketing analysts, and manufacturers of water and sewage works materials and equipment for use in estimating and market analysis studies.

Table II shows the estimated value of expenditures for labor, overhead, supplies, and each of the principal items of material and equipment incorporated into the construction in 1958.

These estimates were based upon a survey of selected water and sewerage contract awards for construction projects started in the period from 1948 to 1952, inclusive. A number of previous studies of the distribution of construction expenditure were reviewed and taken into consideration. Readjustments were made in the figures extracted for many of the items of materials and equipment in order to correct what were believed to be inadequacies in the selected samples of construction projects. The contract awards did not include the value of materials and equipment incorporated into construction which were purchased directly by the utilities, such as pressure and sewer pipe, valves and hydrants, water meters, copper service pipe and fittings and some of the treatment equipment.

Since the samples on which the original studies were based were selected from projects started in 1948 to 1952, adjustments were made to reflect the changes in construction practice as of 1958. These adjustments could only be approximated according to the Division's best judgment since no new survey has been made. A new survey would probably reveal other changes in construction practice which have not been identified and would thus permit additional adjustments.

As originally assembled, the data on concrete pipe fabricated locally were entered as sand, gravel, crushed stone, cement, steel reinforcing, wire and wireworks products, sheet metal, labor, overhead, supplies, and material not elsewhere classified. The figures have now been converted to equivalent value in concrete pipe. Similarly, as originally assembled, the data on collection systems for sewage and distribution systems for water contained small amounts of treatment plant expenditures. These figures have been extracted and are now entered as treatment plant expenditures.

The total values of construction put in place in 1958 as shown in Table II are estimates developed by the Water and Sewerage Industries and Utilities Division of the full value of that year's construction. Data on capital expenditures from the Bureau of Census' "Summary of Governmental Finances—1958" were used in estimating the full totals of the public portions of the construction. Additional volumes were added to make allowance for construction by privately owned utilities and utilities installed by real estate developers.

\*Director, Water and Sewerage Industry and Utilities Division, Business and Defense Services Administration, U. S. Department of Commerce.

Table 1.—Estimated Capital Expenditure per Million Dollars for Construction of Water Supply and Sewage Disposal Systems, 1958  
(Thousands of dollars)

Item	Water Supply			Sewage Disposal		
	Total	Treatment plant	Distribution and other <sup>4</sup>	Total	Treatment plant	Collection and other <sup>5</sup>
Breakdown by Major Item of Expenditure						
Total.....	1,000.0	1,000.0	1,000.0	1,000.0	1,000.0	1,000.0
Labor.....	268.0	296.8	261.7	294.1	288.4	296.5
Overhead, profit, equipment and other charges.....	160.7	161.4	160.6	189.4	178.3	194.2
Supplies.....	16.4	20.6	15.5	21.0	9.0	26.2
Materials.....	554.9	521.2	562.2	495.5	524.3	483.1
Breakdown of Supplies						
Supplies.....	16.4	20.6	15.5	21.0	9.0	26.2
Explosives.....	.6	.2	.7	1.1	.2	1.5
Fuels, (coal, coke, petroleum products).....	10.3	9.6	10.5	9.7	5.1	11.7
All other, including small tools.....	5.5	10.8	4.3	10.2	3.7	13.0
Breakdown of Materials						
Materials.....	554.9	521.2	562.2	495.5	524.3	483.1
Metal products.....	301.3	146.4	335.0	120.0	116.2	121.6
Bolts, nuts, washers, rivets.....	.9	.4	1.0	1.1	.6	1.3
Castings, iron and steel.....	7.8	1.4	9.2	14.1	1.0	19.7
Forgings, iron and steel.....	.2	.7	.1	.4	1.0	.1
Hardware.....	.3	.8	.2	.3	.6	.2
Hydrants and valves <sup>1</sup> .....	59.8	29.9	66.3	5.4	8.8	3.9
Lead.....	2.5	.4	2.9	.6	.6	.6
Metal doors.....	1.3	5.4	.4	1.1	3.3	.1
Nails and spikes.....	.2	.2	.2	.5	.6	.5
Pipe and fittings.....	183.4	55.3	211.3	23.0	32.1	19.1
Cast iron.....	114.2	136.7	131.1	15.9	18.9	14.7
Wrought iron and steel.....	50.9	17.5	58.2	4.3	8.7	2.4
Copper and other nonferrous metals.....	18.3	1.1	22.0	2.8	4.5	2.0
Plumbing fixtures and supplies, excluding pipe	1.2	5.8	.2	1.1	1.4	.9
Sheet metal.....	.....	.....	.....	.5	1.7	.....
Steel reinforcing.....	8.3	26.1	4.4	42.8	35.8	45.8
Steel, structural.....	6.5	5.8	6.7	20.1	17.5	21.3
Tanks and towers.....	26.3	9.6	29.9	.4	1.3	.....
Wire and wirework products.....	.....	.....	.....	1.8	1.8	1.8
Iron and steel products, n.e.c.....	2.6	4.6	2.2	6.8	8.1	6.3
Machinery and equipment.....	117.3	264.8	85.2	90.1	250.2	21.5
Electrical equipment (motors, generators, apparatus).....	5.1	7.2	4.6	6.3	13.6	3.1
Electrical wiring devices and fixtures.....	5.5	21.8	2.0	4.6	11.0	1.9
Elevators and elevator equipment.....	.6	3.3	.....	.1	.4	.....
Heating and ventilating equipment.....	1.9	5.8	1.0	1.9	5.4	.4
Pumps and pumping equipment, including prime movers.....	23.0	75.8	11.5	32.7	77.6	13.5
Sewage waste treatment equipment.....	.....	.....	.....	39.7	132.2	.....
Water metals, regulators, gauges <sup>2</sup> .....	57.3	17.4	66.0	3.6	5.9	2.6
Water softening and treatment equipment <sup>3</sup> .....	21.8	121.9	.....	.....	.....	.....
Foundry and machine shop products, n.e.c.....	2.1	11.6	.1	1.2	4.1	.....
Stone, clay and glass products.....	116.8	90.7	122.5	217.7 <sup>4</sup>	126.8	256.6
Brick and hollow tile.....	5.3	8.8	4.5	9.6	12.7	8.3
Cement.....	7.6	23.9	4.0	60.1	56.8	61.5
Asbestos cement pipe.....	55.0	.4	66.9	5.7	.3	8.0
Clay pipe.....	.4	1.9	.1	30.0	4.6	40.8
Concrete pipe.....	39.0	28.4	41.3	60.0	7.9	82.3
Marble, granite, slate.....	.9	2.8	.5	.5	1.7	.....
Sand, gravel, crushed stone.....	7.5	21.9	4.4	50.1	40.5	54.2
Stone, clay and glass products, n.e.c.....	1.1	2.6	.8	1.7	2.3	1.5
Lumber products.....	5.8	10.2	4.8	23.8	19.7	25.6
All other materials.....	13.7	9.1	14.7	43.9	11.4	57.8
Expansion joints (hemp, jute, and other joint compounds).....	2.3	2.4	2.3	2.3	.7	3.0
Paints and varnishes.....	1.1	1.6	1.0	.9	2.7	.1
Paving materials and mixtures.....	8.9	2.3	10.3	38.5	3.2	53.6
Roofing materials.....	.8	2.2	.5	.2	.5	.....
Rubber products.....	.6	.6	.6	.5	1.6	.....
Materials, n.e.c.....	.....	.....	.....	1.5	2.9	.9

<sup>1</sup>Includes also butterfly valves, sluice gates, plug and cone valves, check valves, yard hydrants, and water service fittings.

<sup>2</sup>Includes automatic valves and regulators. <sup>3</sup>Includes chlorinators and chemical dosing machines.

<sup>4</sup>Includes supply impoundage, transmissions, storage. <sup>5</sup>Includes interceptors, pumping, and outfall lines.

Source: U.S. Department of Commerce, BDSA, Water and Sewerage Industry and Utilities Division.

Table II.—Estimated Distribution of Capital Expenditures<sup>1</sup> for Construction of Water Supply and Sewage Disposal Systems, 1958  
(Thousands of dollars)

Item	Water Supply			Sewage Disposal		
	Total	Treatment plant	Distribution and other <sup>5</sup>	Total	Treatment plant	Collection and other <sup>6</sup>
Breakdown by Major Item of Expenditure						
Total.....	827,000	147,933	679,067	734,000	220,000	513,800
Labor.....	221,636	43,904	177,732	215,848	63,499	152,349
Overhead, profit, equipment and other charges.....	132,899	23,877	109,022	139,027	39,256	99,771
Supplies.....	13,563	3,042	10,521	15,451	6,996	13,455
Materials.....	458,902	77,110	381,792	363,674	115,449	248,225
Breakdown of Supplies						
Supplies.....	13,563	3,042	10,521	15,451	1,996	13,455
Explosives.....	496	20	476	815	43	770
Fuels, (Coal, coke, petroleum products).....	8,518	1,422	7,096	7,164	1,134	6,030
All other, including small tools.....	4,549	1,600	2,949	7,472	817	6,655
Breakdown of Materials						
Materials.....	458,902	77,110	381,792	363,674	115,449	248,225
Metal products.....	249,175	21,655	227,520	88,057	25,584	62,473
Bolts, nuts, washers, rivets.....	744	67	677	800	136	664
Castings, iron and steel.....	6,451	210	6,241	10,342	226	10,116
Forgings, iron and steel.....	165	100	65	271	226	45
Hardware.....	248	115	133	235	136	99
Hydrants and valves <sup>2</sup> .....	49,455	4,430	45,025	3,927	1,928	1,999
Lead.....	2,068	57	2,011	440	136	304
Metal doors.....	1,075	799	276	803	727	81
Nails and spikes.....	165	30	135	389	136	253
Pipe and fittings.....	151,672	8,184	143,488	16,889	7,075	9,814
Cast iron.....	94,444	5,433	89,011	11,707	4,172	7,535
Wrought iron and steel.....	42,094	2,591	39,503	3,134	1,905	1,229
Copper and other nonferrous metals.....	15,134	160	14,974	2,048	998	1,050
Plumbing fixtures and supply, excluding pipe.....	992	858	134	770	317	453
Sheet metal.....	.....	.....	.....	374	374	.....
Steel, reinforcing.....	6,864	3,856	3,008	31,430	7,870	23,560
Steel, structural.....	5,376	852	4,524	14,790	3,855	10,935
Tanks and towers.....	21,750	1,421	20,329	286	286	.....
Wire and wireworks products.....	.....	.....	.....	1,300	386	914
Iron and steel products, n.e.c.....	2,150	676	1,474	5,006	1,770	3,236
Machinery and equipment.....	97,007	39,167	57,840	66,162	55,086	11,076
Electrical equipment (motors, generators, apparatus).....	4,218	1,058	3,160	4,602	2,994	1,608
Electrical wiring devices and fixtures.....	4,548	3,219	1,329	3,384	2,426	958
Elevators and elevator equipment.....	496	.....	.....	88	88	.....
Heating and ventilating equipment.....	1,571	856	715	1,402	1,180	222
Pumps and pumping equipment including prime movers.....	19,021	11,209	7,812	24,031	17,092	6,939
Sewage waste treatment equipment.....	.....	.....	.....	29,110	29,110	.....
Water meters, regulators, gauges <sup>3</sup> .....	47,387	2,579	44,808	2,642	1,293	1,349
Water softening and treatment equipment <sup>4</sup> .....	18,029	18,029	.....	.....	.....	.....
Foundry and machine shop products, n.e.c.....	1,737	1,721	16	903	903	.....
Stone, clay and glass products.....	96,594	13,423	83,171	159,800	27,930	131,870
Brick and hollow tile.....	4,383	1,298	3,085	7,075	2,789	4,286
Cement.....	6,285	3,539	2,746	44,114	12,519	31,595
Asbestos cement pipe.....	45,485	67	45,418	4,184	68	4,116
Clay pipe.....	331	280	51	21,998	1,021	20,977
Concrete pipe.....	32,253	4,198	28,055	44,040	1,747	42,293
Marble, granite, slate.....	744	418	326	375	375	.....
Sand, gravel, crushed stone.....	6,203	3,245	2,958	36,759	8,913	27,846
Stone, clay, and glass products, n.e.c.....	910	378	532	1,255	498	757
Lumber products.....	4,796	1,515	3,281	17,462	4,332	13,130
All other materials.....	11,330	1,350	9,980	32,193	2,517	29,676
Expansion joints (hemp, jute and other joint compounds).....	1,902	351	1,551	1,695	159	1,536
Paints and varnishes.....	910	238	672	624	590	34
Paving materials and mixtures.....	7,360	337	7,023	28,274	714	27,560
Roofing materials.....	662	332	330	169	68	101
Rubber products.....	496	92	404	352	352	.....
Materials, n.e.c.....	.....	.....	.....	1,079	634	445

<sup>1</sup> The Water and Sewerage Industry and Utilities Division's own estimate of the full volume of water and sewerage construction put in place in 1958. <sup>2</sup> Includes also butterfly valves, sluice gates, plug and cone valves, yard hydrants, and water service fittings.

<sup>3</sup> Includes automatic valves and regulators.

<sup>4</sup> Includes chlorinators and chemical dosing machines. <sup>5</sup> Includes supply impoundage, transmission, and storage. <sup>6</sup> Includes interceptors, pumping, and outfall lines.

Source: U. S. Department of Commerce, BDSA, Water and Sewerage Industry and Utilities Division.

# STATISTICAL SERIES

## Part A.—Construction Put in Place

NOTE: The monthly estimates in Part A are determined primarily by past contract award movements, standard progress patterns, and assumed normal seasonal movements. Except when special surveys are undertaken, as was done during the 1959 steel strike, they do not reflect the effects of varying numbers of working days in given months, nor of special conditions influencing the volume of activity in any given month, such as unusual weather, materials shortages, overtime, work stoppages, and delays.

Table A-1.—New Construction Put in Place in the United States: Current Value and Relative Changes, by Type of Construction

Type of construction	Value (in millions of dollars)						Seasonally adjusted annual rate Jan. 1961	Percent change		
	1960		1961	1960	Annual totals			Year 1959-60	Jan. 1961 from	
	No- vember	Decem- ber	Janu- ary	Janu- ary	1959	1960			Jan. 1960	Dec. 1960
TOTAL NEW CONSTRUCTION.....	\$4,810	\$4,483	3,831	3,813	56,206	\$55,173	55,330	- 2	(1)	- 15
PRIVATE CONSTRUCTION.....	\$3,390	\$3,130	2,751	2,870	39,949	\$38,929	38,240	- 3	- 4	- 12
Residential buildings (nonfarm).....	\$1,879	\$1,702	1,432	1,620	24,469	\$22,024	20,666	-10	- 12	- 16
New dwelling units.....	\$1,392	\$1,269	1,053	1,282	19,233	\$16,424	14,626	-15	- 18	- 17
Additions and alterations.....	400	\$343	289	269	4,468	\$4,679	4,967	+ 5	+ 7	- 16
Nonhousekeeping.....	87	90	90	69	768	921	1,073	+20	+30	0
Nonresidential buildings.....	923	\$896	853	773	8,859	\$10,032	10,712	+13	+10	- 5
Industrial.....	263	265	266	225	2,106	2,861	3,031	+36	+18	(1)
Commercial.....	382	\$365	338	309	3,930	\$4,072	4,516	+ 4	+ 9	- 7
Office buildings and warehouses	189	\$186	183	167	1,954	\$2,072	2,232	+ 6	+10	- 2
Stores, restaurants, and garages	193	179	155	142	1,976	2,000	2,284	+ 1	+ 9	-13
Other nonresidential buildings...	278	\$266	249	239	2,823	\$3,099	3,165	+10	+ 4	- 6
Religious.....	94	\$89	82	80	947	\$1,032	1,018	+ 9	+ 3	- 8
Educational.....	54	52	49	46	525	580	611	+10	+7	- 6
Hospital and institutional....	52	52	52	49	570	579	636	+ 2	+ 6	0
Social and recreational.....	58	53	48	45	550	671	654	+22	+7	- 9
Miscellaneous.....	20	20	18	19	231	237	246	+ 3	- 5	-10
Farm construction.....	\$98	\$83	76	100	1,362	\$1,278	1,082	- 6	-24	- 8
Public utilities.....	463	426	367	355	5,052	5,312	5,449	+ 5	+ 3	-14
Telephone and telegraph.....	92	86	82	71	952	1,088	1,170	+14	+15	- 5
Other public utilities.....	371	340	285	284	4,100	4,224	4,279	+ 3	(1)	-16
All other private.....	27	23	23	22	207	283	331	+37	+5	0
PUBLIC CONSTRUCTION.....	\$1,420	\$1,353	1,080	943	16,257	\$16,244	17,090	(1)	+15	-20
Residential buildings.....	\$60	\$59	59	58	962	\$717	706	-25	+2	0
Nonresidential buildings.....	\$408	\$389	379	328	4,514	\$4,750	4,986	+ 5	+16	- 3
Industrial.....	37	\$36	34	35	368	\$419	434	+14	- 3	- 6
Educational.....	239	235	235	197	2,656	2,820	2,986	+ 6	+19	0
Hospital and institutional.....	33	31	27	29	428	400	384	- 7	- 7	-13
Administrative and service.....	50	\$43	41	34	568	\$591	598	+ 4	+21	- 5
Other nonresidential buildings...	\$49	\$44	42	33	494	\$520	584	+ 5	+27	- 5
Military facilities.....	\$157	\$127	113	89	1,488	\$1,370	1,660	- 8	+27	-11
Highways.....	\$494	\$507	270	224	5,916	\$5,797	5,972	- 2	+21	-47
Sewer and water facilities.....	119	\$112	114	114	1,467	\$1,487	1,533	+ 1	0	+ 2
Sewer.....	67	64	65	71	906	882	863	- 3	- 8	+ 2
Water.....	52	\$48	49	43	561	\$605	670	+ 8	+14	+ 2
Public service enterprises.....	55	43	40	35	551	651	643	+18	+14	- 7
Conservation and development.....	106	\$96	84	80	1,130	\$1,247	1,276	+10	+5	-13
All other public.....	21	20	21	15	229	225	314	- 2	+40	+5

Source: Department of Commerce, Bureau of the Census.

1 Change of less than one-half of 1 percent.

2 Revised.



Table A-2.—New Construction Put in Place in the United States: Seasonally Adjusted Annual Rates in Current and Constant\* Dollars  
(Millions of dollars)

Period	New construction put in place**						Private construction				
	Total		Private		Public		Residential building (nonfarm)				
							Total		New dwelling units		
	Current	Constant	Current	Constant	Current	Constant	Current	Constant	Current	Constant	
1955.....	44, 164	35, 334	32, 440	25, 661	11, 724	9, 673	18, 705	15, 078	14, 990	} n. a.	
1956.....	45, 779	34, 681	33, 067	24, 805	12, 712	9, 876	17, 677	13, 648	13, 535		
1957.....	47, 795	34, 944	33, 778	24, 469	14, 017	10, 475	17, 019	12, 903	12, 615		
1958.....	48, 903	35, 418	33, 491	23, 964	15, 412	11, 454	18, 047	13, 555	13, 552		10, 174
1959.....	56, 206	39, 904	39, 949	27, 847	16, 257	12, 057	24, 469	17, 753	19, 233		13, 954
Seasonally adjusted annual rates											
1960: January.....	54, 726	38, 404	39, 894	27, 592	14, 832	10, 812	23, 244	16, 728	17, 808	12, 804	
February.....	54, 889	38, 377	39, 709	27, 229	15, 180	11, 148	22, 536	16, 104	17, 136	12, 252	
March.....	54, 419	38, 081	39, 263	26, 993	15, 156	11, 088	22, 392	16, 056	16, 860	12, 084	
April.....	54, 166	37, 712	38, 722	26, 504	15, 444	11, 208	21, 930	15, 697	16, 458	11, 773	
May.....	55, 260	38, 680	38, 916	26, 596	16, 344	12, 084	22, 180	15, 820	16, 516	11, 788	
June.....	55, 189	38, 453	39, 103	26, 707	16, 086	11, 746	22, 362	15, 939	16, 753	11, 941	
July.....	55, 390	38, 602	39, 035	26, 651	16, 355	11, 951	22, 308	15, 923	16, 613	11, 858	
September.....	55, 298	38, 629	38, 660	26, 414	16, 638	12, 215	21, 783	15, 581	16, 300	11, 659	
September.....	55, 325	38, 467	38, 697	26, 408	16, 628	12, 059	21, 716	15, 534	15, 941	11, 403	
October.....	54, 736	38, 041	38, 331	26, 178	16, 405	11, 863	21, 228	15, 226	15, 654	11, 230	
November.....	55, 430	38, 498	38, 581	26, 366	16, 849	12, 132	21, 428	15, 382	15, 792	11, 337	
December.....	56, 405	39, 288	38, 640	26, 374	17, 765	12, 914	21, 522	15, 461	15, 685	11, 268	
1961: January.....	55, 330	38, 354	38, 240	26, 039	17, 090	12, 315	20, 666	14, 856	14, 626	10, 514	
Percent change											
January 1960-61.....	+ 1	(1)	- 4	- 6	+15	+14	- 11	- 11	- 18	- 18	
12 months 1959-60.....	- 2	- 4	- 2	- 4	- 1	- 2	- 10	- 11	- 14	- 16	
Private construction—Con.											
Period	Residential building—Con.				Nonresidential buildings						
	Additions and alterations		Nonhousekeeping		Total		Industrial		Office buildings and warehouses		
	Current	Constant	Current	Constant	Current	Constant	Current	Constant	Current	Constant	
1955.....	3, 376	} n. a.	339	} n. a.	7, 611	6, 007	2, 399	1, 941	1, 311	1, 054	
1956.....	3, 695		447		8, 817	6, 594	3, 084	2, 306	1, 684	1, 294	
1957.....	3, 903		501		9, 556	6, 805	3, 557	2, 506	1, 893	1, 389	
1958.....	3, 862		2, 902		633	8, 675	6, 046	2, 382	1, 679	2, 013	1, 417
1959.....	4, 468		3, 241		768	558	8, 859	5, 974	2, 106	1, 457	1, 954
Seasonally adjusted annual rates											
1960: January.....	4, 620	3, 324	816	600	9, 720	6, 528	2, 556	1, 764	2, 040	1, 368	
February.....	4, 572	3, 264	828	588	10, 224	6, 816	2, 748	1, 896	2, 064	1, 380	
March.....	4, 680	3, 360	852	612	10, 032	6, 708	2, 772	1, 920	2, 028	1, 356	
April.....	4, 596	3, 288	876	636	9, 948	6, 624	2, 772	1, 908	2, 004	1, 332	
May.....	4, 764	3, 396	900	636	9, 828	6, 576	2, 760	1, 908	1, 992	1, 332	
June.....	4, 686	3, 340	923	658	9, 754	6, 493	2, 788	1, 922	2, 014	1, 334	
July.....	4, 745	3, 387	950	678	9, 821	6, 519	2, 868	1, 978	2, 068	1, 369	
August.....	4, 528	3, 239	955	683	9, 962	6, 620	2, 934	2, 023	2, 069	1, 379	
September.....	4, 816	3, 445	959	686	10, 173	6, 734	3, 041	2, 097	2, 087	1, 382	
October.....	4, 620	3, 314	954	682	10, 313	6, 826	3, 084	2, 127	2, 129	1, 410	
November.....	4, 648	3, 336	988	709	10, 335	6, 839	3, 036	2, 094	2, 158	1, 429	
December.....	4, 805	3, 452	1, 032	741	10, 393	6, 853	2, 982	2, 057	2, 159	1, 430	
1961: January.....	4, 967	3, 571	1, 073	771	10, 712	7, 061	3, 031	2, 090	2, 232	1, 478	
Percent change											
January 1960-61.....	+ 8	+ 7	+ 31	+ 29	+ 10	+ 8	+ 19	+ 18	+ 9	+ 8	
12 months 1959-60.....	+ 5	+ 3	+ 20	+ 18	+ 14	+ 12	+ 36	+ 36	+ 6	+ 3	

See footnotes at end of table.

Table A-2.—New Construction Put in Place in the United States: Seasonally Adjusted Annual Rates in Current and Constant\* Dollars—Con.

(Millions of dollars)

Period	Private construction—Con.									
	Nonresidential buildings—Con.									
	Stores, restaurants, garages		Religious		Educational		Hospitals and institutional		Social and recreational	
	Current	Constant	Current	Constant	Current	Constant	Current	Constant	Current	Constant
1955.....	1,907	1,472	734	n. a.	492	n. a.	351	n. a.	239	n. a.
1956.....	1,947	1,441	768		536		328		275	
1957.....	1,671	1,186	868		525		525		311	
1958.....	1,576	1,085	863	594	574	396	600	415	424	291
1959.....	1,976	1,306	947	634	525	352	570	380	550	364
Seasonally adjusted annual rates										
1960: January.....	2,100	1,380	984	660	564	372	600	396	624	408
February.....	2,292	1,500	1,044	684	576	372	600	396	648	432
March.....	2,088	1,368	1,044	684	576	384	588	384	672	444
April.....	2,052	1,344	1,056	696	576	372	576	372	684	444
May.....	1,968	1,284	1,032	684	576	384	564	372	696	456
June.....	1,867	1,220	1,027	671	572	374	541	354	692	453
July.....	1,802	1,170	1,015	659	578	376	538	349	700	454
August.....	1,853	1,203	1,025	665	574	372	547	355	700	454
September.....	1,949	1,257	1,033	667	586	378	574	370	686	443
October.....	2,004	1,293	1,036	668	595	384	593	382	662	427
November.....	2,040	1,316	1,034	667	592	382	611	394	652	420
December.....	2,148	<sup>r</sup> 1,377	<sup>r</sup> 1,024	<sup>r</sup> 656	592	<sup>r</sup> 379	631	<sup>r</sup> 405	641	<sup>r</sup> 411
January.....	2,284	1,464	1,018	652	611	392	636	408	654	419
Percent change										
January 1960-61.....	+ 9	+ 6	+ 3	- 1	+ 8	+ 5	+ 6	+ 3	+ 5	+ 3
12 months 1959-60.....	+ 3	( <sup>1</sup> )	+ 9	+ 6	+ 10	+ 7	+ 2	- 1	+ 23	+ 20
Private construction—Con.										
Period	Nonres. bldg.—Con.		Farm construction		Total		Public utilities		Other public utilities	
	Miscellaneous						Telephone and telegraph			
	Current	Constant	Current	Constant	Current	Constant	Current	Constant	Current	Constant
1955.....	178	n. a.	1,600	1,344	4,363	3,119	805	612	3,558	2,507
1956.....	195		1,560	1,232	4,893	3,230	1,066	754	3,827	2,476
1957.....	206		1,590	1,249	5,414	3,384	1,068	744	4,346	2,640
1958.....	243	169	1,475	1,130	5,105	3,096	904	622	4,201	2,474
1959.....	231	151	1,362	1,020	5,052	2,975	952	633	4,100	2,342
Seasonally adjusted annual rates										
1960: January.....	252	180	1,374	1,024	5,232	3,120	1,008*	672	4,224	2,448
February.....	252	156	1,357	1,009	5,292	3,132	1,068	696	4,224	2,436
March.....	264	168	1,331	989	5,232	3,072	960	624	4,272	2,448
April.....	228	156	1,324	979	5,256	3,060	1,020	660	4,236	2,400
May.....	240	156	1,328	984	5,316	3,072	1,104	720	4,212	2,352
June.....	253	165	1,324	982	5,405	3,145	1,190	763	4,215	2,382
July.....	252	164	1,267	933	5,364	3,119	1,145	734	4,219	2,385
August.....	260	169	1,240	913	5,406	3,146	1,192	764	4,214	2,382
September.....	217	140	1,246	914	5,285	3,068	1,096	702	4,189	2,366
October.....	210	135	1,225	901	5,261	3,052	1,080	692	4,181	2,360
November.....	212	137	<sup>r</sup> 1,125	<sup>r</sup> 902	5,282	3,065	1,091	699	4,191	2,366
December.....	216	<sup>r</sup> 138	<sup>r</sup> 1,124	<sup>r</sup> 820	5,320	<sup>r</sup> 3,080	1,081	<sup>r</sup> 689	4,239	<sup>r</sup> 2,391
1961: January.....	246	158	1,082	787	5,449	3,146	1,170	745	4,279	2,401
Percent change										
January 1960-61.....	- 2	- 12	- 21	- 23	+ 4	+ 1	+ 16	+ 11	+ 1	- 2
12 months 1959-60.....	+ 5	+ 3	- 5	- 7	+ 5	+ 4	+ 14	+ 11	+ 3	+ 2

See footnotes at end of table.



Table A-2.—New Construction Put in Place in the United States: Seasonally Adjusted Annual Rates in Current and Constant\* Dollars—Con.  
(Millions of dollars)

Period	Public construction											
	Residential buildings		Nonresidential buildings									
			Total**		Industrial		Educational		Hospital and institutional		Administrative and service	
	Current	Con-stant	Current	Con-stant	Current	Con-stant	Current	Con-stant	Current	Con-stant	Current	Con-stant
1955.....	266	213	4,196	3,274	721	588	2,442	1,888	300	232	331	n. a.
1956.....	292	225	4,076	3,017	453	339	2,556	1,891	300	220	362	
1957.....	506	383	4,507	3,193	473	333	2,825	2,003	354	250	439	
1958.....	846	637	4,653	3,214	408	289	2,875	1,982	390	267	532	
1959.....	962	703	4,514	3,035	368	256	2,656	1,780	428	287	568	379
Seasonally adjusted annual rates												
1960: January.....	696	504	4,308	2,832	444	300	2,508	1,656	408	264	503	331
February.....	684	492	4,500	2,976	396	276	2,628	1,728	432	288	508	334
March.....	684	504	4,308	2,868	372	264	2,580	1,704	372	240	505	332
April.....	720	516	4,560	2,988	408	276	2,688	1,764	384	252	590	386
May.....	768	552	4,692	3,084	384	264	2,832	1,848	408	276	610	398
June.....	724	516	4,698	3,085	389	268	2,796	1,827	414	271	618	404
July.....	774	552	5,083	3,325	634	437	2,914	1,892	403	262	623	404
August.....	724	518	4,811	3,139	362	250	2,930	1,903	396	257	608	395
September.....	712	509	4,878	3,164	389	268	2,941	1,898	408	263	611	394
October.....	691	496	4,902	3,181	391	270	2,952	1,905	388	250	617	398
November.....	<sup>†</sup> 701	<sup>†</sup> 503	<sup>†</sup> 5,043	<sup>†</sup> 3,273	<sup>†</sup> 414	<sup>†</sup> 286	<sup>†</sup> 2,992	<sup>†</sup> 1,930	<sup>†</sup> 385	<sup>†</sup> 249	<sup>†</sup> 638	<sup>†</sup> 412
December.....	<sup>†</sup> 698	<sup>†</sup> 502	<sup>†</sup> 5,050	<sup>†</sup> 3,258	<sup>†</sup> 431	<sup>†</sup> 297	<sup>†</sup> 2,981	<sup>†</sup> 1,911	<sup>†</sup> 391	<sup>†</sup> 251	<sup>†</sup> 619	<sup>†</sup> 397
1961: January.....	706	507	4,986	3,218	434	300	2,986	1,914	384	246	598	383
Percent change												
January 1960-61.....	+ 1	+ 1	+16	+14	- 2	0	+ 19	+16	- 6	- 7	+19	+16
12 months 1959-60.....	- 26	- 27	+ 5	+ 2	+ 13	<sup>†</sup> +13	+ 6	+ 3	- 7	- 9	+ 3	( <sup>1</sup> )
Public construction—Con.												
Period	Military facilities		Highways		Sewer systems		Water systems		Public service enterprises		Conservation and development	
	Current	Con-stant	Current	Con-stant	Current	Con-stant	Current	Con-stant	Current	Con-stant	Current	Con-stant
1955.....	1,287	1,063	3,861	3,633	615	436	470	333	233	157	701	497
1956.....	1,360	1,059	4,395	3,851	701	473	574	386	384	240	826	556
1957.....	1,287	955	4,892	4,146	781	503	563	362	393	232	971	625
1958.....	1,402	1,028	5,500	4,731	836	518	551	339	451	261	1,019	633
1959.....	1,488	1,082	5,916	5,253	906	536	561	333	551	308	1,130	670
Seasonally adjusted annual rates												
1960: January.....	1,272	936	5,004	4,464	948	564	588	336	564	324	1,224	720
February.....	996	732	5,448	4,896	948	552	588	336	624	348	1,140	672
March.....	1,512	1,020	5,112	4,632	948	552	588	348	588	336	1,224	708
April.....	1,236	864	5,304	4,776	960	552	576	336	600	336	1,284	732
May.....	1,200	852	6,168	5,568	936	552	576	324	600	336	1,200	696
June.....	1,283	916	5,639	5,085	907	521	568	326	619	350	1,439	827
July.....	1,265	903	5,768	5,196	874	499	581	332	668	378	1,133	647
August.....	1,430	1,022	6,121	5,510	839	479	608	348	697	394	1,196	684
September.....	1,392	987	5,987	5,312	811	464	643	368	689	389	1,296	741
October.....	1,354	960	5,791	5,134	815	466	650	372	696	393	1,264	722
November.....	<sup>†</sup> 1,819	<sup>†</sup> 1,290	<sup>†</sup> 5,600	<sup>†</sup> 4,964	805	460	643	368	<sup>†</sup> 703	<sup>†</sup> 397	<sup>†</sup> 1,267	<sup>†</sup> 724
December.....	<sup>†</sup> 1,643	<sup>†</sup> 1,165	<sup>†</sup> 6,660	<sup>†</sup> 5,873	<sup>†</sup> 820	<sup>†</sup> 468	<sup>†</sup> 664	<sup>†</sup> 379	<sup>†</sup> 668	<sup>†</sup> 376	<sup>†</sup> 1,267	<sup>†</sup> 724
1961: January.....	1,660	1,177	5,972	5,267	863	493	670	383	643	361	1,276	729
Percent change												
January 1960-61.....	+ 31	+26	+ 19	+18	- 9	- 13	+14	+14	+14	+11	+ 4	+ 1
12 months 1959-60.....	<sup>†</sup> - 9	<sup>†</sup> -10	<sup>†</sup> - 5	<sup>†</sup> - 3	- 2	- 5	+ 8	<sup>†</sup> + 4	+18	+18	<sup>†</sup> +10	<sup>†</sup> + 7

Source: Department of Commerce, Bureau of the Census. \*1947-49 dollars. \*\*Includes values for the "other" categories, not shown separately on this table. See table A-1. <sup>†</sup>Change of less than one-half of 1 percent. <sup>‡</sup>Revised. NOTE: Values for 1955-1958, shown in italics, are not comparable with later data which reflect the "new" housing starts series. While data for Alaska and Hawaii have been included in all series, the effect on national totals is negligible, being of the order of one-half of 1 percent.

Table A-3.—New Public Construction Put in Place in the United States: Value, by Source and Type of Funds, and by Ownership  
(Millions of dollars)

Period	Total	Source of funds				Ownership		Federally owned	
		Federal			State and local	Federal	State and local	Residential buildings	Military facilities
		Total	Direct	Grants-in-aid					
1956.....	12,712	3,639	2,728	911	9,073	2,728	9,984	17	1,360
1957.....	14,017	4,376	2,991	1,385	9,641	2,991	11,026	155	1,287
1958.....	15,412	5,663	3,419	2,244	9,749	3,419	11,993	357	1,402
1959.....	16,257	6,632	3,842	2,790	9,625	3,842	12,415	488	1,488
1960.....	16,244	6,140	3,692	2,448	10,104	3,692	12,552	289	1,370
1960: January.....	943	360	247	113	583	247	696	25	89
February.....	884	316	199	117	568	199	685	23	61
March.....	991	362	246	116	629	246	745	24	92
April.....	1,170	422	271	151	748	271	899	25	88
May.....	1,383	532	300	232	851	300	1,083	27	103
June.....	1,534	591	358	233	943	358	1,176	27	126
July.....	1,604	604	338	266	1,000	338	1,266	26	114
August.....	1,682	639	345	294	1,043	345	1,337	24	135
September.....	1,701	645	364	281	1,056	364	1,337	23	143
October.....	1,579	589	351	238	990	351	1,228	22	135
November.....	1,420	543	361	182	877	361	1,059	22	157
December.....	1,353	537	312	225	816	312	1,041	21	127
1961: January.....	1,080	412	272	140	668	272	808	20	113
Percent change									
January 1960-61.....	+15	+14	+10	+24	+15	+10	+16	-20	+27
12 mos. 1959-60.....	r (1)	r -7	r -4	r -12	r +5	r -4	r +1	-41	r -8
Federally owned—Con.									
Period	Nonresidential buildings						Highways	Conservation and development	All other
	Total	Industrial	Educational	Hospital	Administrative and service	Other nonresidential			
1956.....	583	453	8	37	30	55	79	675	14
1957.....	600	473	8	45	54	20	117	818	14
1958.....	607	408	11	35	122	31	145	885	23
1959.....	660	368	11	58	149	74	180	981	45
1960.....	696	419	21	56	137	63	181	1,079	77
1960: January.....	52	35	1	4	8	4	8	69	4
February.....	47	29	1	4	8	5	8	56	4
March.....	46	29	1	4	8	4	8	72	4
April.....	54	34	1	4	12	4	12	86	6
May.....	56	33	2	5	12	4	16	92	6
June.....	60	35	2	6	13	4	19	119	7
July.....	79	54	3	5	12	5	20	91	8
August.....	58	32	2	5	13	6	20	101	7
September.....	58	31	2	5	14	6	21	111	8
October.....	60	35	2	5	13	5	19	106	9
November.....	66	37	2	5	13	9	16	92	8
December.....	60	36	2	4	11	7	14	84	6
1961: January.....	54	34	2	3	9	6	8	72	5
Percent change									
January 1960-61.....	+4	-3	+100	-25	+13	+50	0	+4	+25
12 mos. 1959-60.....	r +5	r +14	+91	-3	r -8	r 15	+1	r +10	r +71

See footnotes at end of table.

Table A-3.—New Public Construction Put in Place in the United States: Value, by Source and Type of Funds, and by Ownership—Con.

(Millions of dollars)

Period	State and locally owned									
	Nonresidential buildings						Highways	Sewer systems	Water systems	All other
	Residential buildings	Total	Educational	Hospitals	Administrative and service	Other nonresidential				
1956.....	275	3,493	2,548	263	332	350	4,316	701	574	625
1957.....	351	3,907	2,817	309	385	396	4,775	781	563	649
1958.....	489	4,046	2,864	355	410	417	5,355	836	551	716
1959.....	474	3,854	2,645	370	419	420	5,736	906	561	884
1960.....	428	4,054	2,799	344	454	457	5,616	882	605	967
1960: January.....	33	276	196	25	26	29	216	71	43	57
February.....	34	261	182	25	25	29	233	65	40	52
March.....	33	288	199	27	30	32	245	72	46	61
April.....	35	324	222	30	36	36	344	76	48	72
May.....	37	338	232	30	39	37	499	77	51	81
June.....	33	359	247	30	42	40	567	79	51	87
July.....	37	380	262	31	45	42	617	81	54	97
August.....	35	386	261	31	49	45	667	81	58	110
September.....	37	388	264	31	48	45	672	77	58	105
October.....	38	383	264	29	45	45	585	72	56	94
November.....	38	342	237	28	37	40	<sup>r</sup> 478	67	52	82
December.....	38	<sup>r</sup> 329	233	27	<sup>r</sup> 32	37	<sup>r</sup> 493	64	<sup>r</sup> 48	69
1961: January.....	39	325	233	24	32	36	262	65	49	68
Percent change										
January 1960-61.....	+ 18	+ 18	+ 19	-4	+ 23	+ 24	+ 21	-8	+ 14	+ 19
12 mos. 1959-60.....	-10	+ 5	+ 6	-7	<sup>r</sup> + 8	+ 9	<sup>r</sup> -2	-3	+ 8	+ 9

Source: Department of Commerce, Bureau of the Census. <sup>1</sup>Change of less than one-half of 1 percent. <sup>r</sup>Revised.

NOTE: Beginning with January 1959 data include estimates for the value of new construction put in place in Alaska and Hawaii.

## COMPOSITION OF REGIONS AND GEOGRAPHIC DIVISIONS

## NORTHEAST

1. New England  
Connecticut  
Maine  
Massachusetts  
New Hampshire  
Rhode Island  
Vermont
2. Middle Atlantic  
New Jersey  
New York  
Pennsylvania

## NORTH CENTRAL

3. E. N. Central  
Illinois  
Indiana  
Michigan  
Ohio  
Wisconsin
4. W. N. Central  
Iowa  
Kansas  
Minnesota  
Missouri  
Nebraska  
North Dakota  
South Dakota

## SOUTH

5. S. Atlantic  
Delaware  
Dist. of Col.  
Florida  
Georgia  
Maryland  
N. Carolina  
S. Carolina  
Virginia  
W. Virginia
6. E. S. Central  
Alabama  
Kentucky  
Mississippi  
Tennessee
7. W. S. Central  
Arkansas  
Louisiana  
Oklahoma  
Texas

## WEST

8. Mountain  
Arizona  
Colorado  
Idaho  
Montana  
Nevada  
New Mexico  
Utah  
Wyoming
9. Pacific  
Alaska  
California  
Hawaii  
Oregon  
Washington

## Part B.—Housing

NOTE: The statistics shown in italics in this section relate to the "old" housing starts series which was terminated with April 1960 data. The "new" series overlaps the "old" one for the period January 1959-April 1960.

A description of the "new" series and a statement regarding conceptual, coverage, and methodological changes which affect the comparability of the two series appears in CONSTRUCTION REVIEW, June 1960, pp. 4-10.

Table B-1.—Housing Starts in the United States: Number and Percentage Distribution, by Ownership and Type of Structure

Period	Total	Ownership		Public	Type of structure			Seasonally adjusted annual rate, private	
		Private			1-family	2-family	3-or-more family	Total	Nonfarm
		Total	Nonfarm						
Old series	Number of units (in thousands)								
1956.....	1,118.1	.....	1,093.9	24.2	989.7	30.9	97.5	.....	.....
1957.....	1,041.9	.....	992.8	49.1	872.7	33.3	135.9	.....	.....
1958.....	1,209.4	.....	1,141.5	67.9	975.1	38.9	195.4	.....	.....
1959.....	1,378.5	.....	1,342.8	35.7	1,094.6	52.5	231.4	.....	.....
New series									
1959.....	1,553.5	1,516.8	1,494.6	36.7	1,250.7	58.5	244.3	.....	.....
1960.....	1,281.4	1,240.0	1,217.8	41.4	n. a.	n. a.	n. a.	.....	.....
1959: December.....	96.4	95.6	92.8	.8	77.0	3.6	15.8	1,451	1,401
1960: January.....	88.4	87.1	83.0	1.3	69.8	3.9	14.7	1,366	1,291
February.....	90.2	87.9	86.5	2.3	70.9	4.0	15.3	1,367	1,347
March.....	93.3	90.2	89.2	3.1	74.0	3.8	15.5	1,112	1,098
April.....	125.2	123.5	121.7	1.7	102.3	4.7	18.2	1,327	1,307
May.....	130.0	127.3	125.5	2.7	101.6	5.0	23.4	1,333	1,315
June.....	127.3	122.2	120.6	5.1	101.5	4.6	21.2	1,302	1,285
July.....	114.9	111.1	109.4	3.8	90.6	4.4	19.8	1,182	1,164
August.....	129.6	124.8	122.7	4.8	102.9	4.2	22.6	1,292	1,273
September.....	<sup>r</sup> 102.0	<sup>r</sup> 96.4	<sup>r</sup> 94.4	5.6	<sup>r</sup> 79.9	<sup>r</sup> 3.7	<sup>r</sup> 18.5	<sup>r</sup> 1,062	<sup>r</sup> 1,040
October.....	<sup>r</sup> 112.2	<sup>r</sup> 109.4	<sup>r</sup> 106.3	2.8	<sup>r</sup> 87.2	<sup>r</sup> 3.7	<sup>r</sup> 21.4	<sup>r</sup> 1,256	<sup>r</sup> 1,220
November.....	<sup>r</sup> 95.6	<sup>r</sup> 93.9	<sup>r</sup> 92.9	<sup>r</sup> 1.7	72.1	3.4	20.1	<sup>r</sup> 1,212	<sup>r</sup> 1,199
December.....	72.7	66.2	65.6	6.5	n. a.	n. a.	n. a.	990	980
Percent change									
December 1959-60.....	- 24.6	- 30.8	- 29.3	( <sup>2</sup> )	.....	.....	.....	.....	.....
12 mos. 1959-60.....	- 17.5	- 18.2	- 18.5	+12.8	<sup>1</sup> - 18.8	<sup>1</sup> - 17.3	<sup>1</sup> -7.8	.....	.....
Percentage distribution									
Old series									
1956.....	100	.....	97.8	2.2	88.5	2.8	8.7	.....	.....
1957.....	100	.....	95.3	4.7	83.8	3.2	13.0	.....	.....
1958.....	100	.....	94.4	5.6	80.6	3.2	16.2	.....	.....
1959.....	100	.....	97.4	2.6	79.4	3.8	16.8	.....	.....
New series									
1959.....	100	97.7	96.2	2.3	80.5	3.8	15.7	.....	.....
1960.....	100	96.8	95.0	3.2	n. a.	n. a.	n. a.	.....	.....
1959: December.....	100	99.3	96.4	.7	80.0	3.7	16.3	.....	.....
1960: January.....	100	98.5	93.9	1.5	79.0	4.4	16.6	.....	.....
February.....	100	97.5	95.9	2.5	78.6	4.4	17.0	.....	.....
March.....	100	96.7	95.6	3.3	79.3	4.1	16.6	.....	.....
April.....	100	98.6	97.2	1.4	81.7	3.8	14.5	.....	.....
May.....	100	97.9	96.5	2.1	78.2	3.8	18.0	.....	.....
June.....	100	96.0	94.7	4.0	79.7	3.6	16.7	.....	.....
July.....	100	96.7	95.2	3.3	78.9	3.8	17.2	.....	.....
August.....	100	96.3	94.7	3.7	79.4	3.2	17.4	.....	.....
September.....	100	94.5	<sup>r</sup> 92.5	5.5	<sup>r</sup> 78.3	<sup>r</sup> 3.6	<sup>r</sup> 18.1	.....	.....
October.....	100	97.5	94.7	2.5	<sup>r</sup> 77.7	<sup>r</sup> 3.3	<sup>r</sup> 19.1	.....	.....
November.....	100	<sup>r</sup> 98.2	<sup>r</sup> 97.2	<sup>r</sup> 1.8	75.4	3.6	21.0	.....	.....
December.....	100	91.1	90.2	8.9	.....	.....	.....	.....	.....

Source: Department of Commerce, Bureau of the Census. \* For seasonally adjusted annual rates pertaining to the "old" housing starts series, 1948-60 by month, see table B-2 in CONSTRUCTION REVIEW, June 1960. n. a. Not yet available. <sup>1</sup>First 11 months 1959-60. <sup>2</sup>Increase exceeds 300 percent. <sup>r</sup>Revised.

Table B-2: Housing Starts in the United States: Number and Percentage Distribution, by Location

Period	Total	Metropolitan area *		Region **			
		Inside	Outside	Northeast	North Central	South	West
	Number of units (in thousands)						
Old series							
1956.....	1, 118. 1	779. 8	338. 3	228. 8	303. 1	334. 2	252. 0
1957.....	1, 041. 9	699. 7	342. 2	195. 5	258. 4	346. 3	241. 7
1958.....	1, 209. 4	827. 0	382. 4	210. 9	289. 6	413. 3	295. 6
1959.....	1, 378. 5	946. 1	432. 4	253. 4	318. 5	459. 0	347. 6
New series							
1959.....	1, 553. 5	1, 076. 9	476. 6	279. 7	374. 8	521. 4	377. 6
1960.....	1, 281. 4	878. 7	402. 7	n. a.	n. a.	n. a.	n. a.
1959: December....	96. 4	67. 0	29. 4	15. 2	19. 3	36. 7	25. 2
1960: January.....	88. 4	64. 5	23. 9	12. 1	17. 5	34. 7	24. 1
February.....	90. 2	65. 7	24. 5	12. 2	16. 2	35. 6	26. 2
March.....	93. 3	66. 6	26. 7	11. 5	14. 1	38. 7	29. 0
April.....	125. 2	82. 8	42. 4	21. 1	30. 2	44. 7	29. 3
May.....	130. 0	90. 8	39. 2	22. 8	34. 6	43. 6	28. 9
June.....	127. 3	83. 7	43. 6	25. 8	35. 7	37. 4	28. 4
July.....	114. 9	79. 9	35. 0	21. 4	32. 1	37. 2	24. 2
August.....	129. 6	85. 4	44. 2	24. 4	29. 2	46. 9	29. 2
September.....	102. 0	67. 8	34. 2	21. 0	28. 0	33. 8	19. 2
October.....	112. 2	75. 8	36. 4	24. 7	28. 1	33. 2	26. 2
November.....	95. 6	65. 5	30. 1	23. 8	20. 2	30. 0	21. 6
December.....	72. 7	50. 2	22. 5	n. a.	n. a.	n. a.	n. a.
	Percent change						
December 1959-60.....	- 24. 6	- 25. 1	- 23. 5	.....	.....	.....	.....
12 mos. 1959-60.....	- 17. 5	- 18. 4	- 15. 5	1-16. 5	1-19. 6	1-14. 2	1-18. 8
	Percentage distribution						
Old series							
1956.....	100	69. 7	30. 3	20. 5	27. 1	29. 9	22. 5
1957.....	100	67. 2	32. 8	18. 8	24. 8	33. 2	23. 2
1958.....	100	68. 4	31. 6	17. 4	23. 9	34. 2	24. 5
1959.....	100	68. 6	31. 4	18. 4	23. 1	33. 3	25. 2
New series							
1959.....	100	69. 3	30. 7	18. 0	24. 1	33. 6	24. 3
1960.....	100	68. 6	31. 4	n. a.	n. a.	n. a.	n. a.
1959: December....	100	69. 5	30. 5	15. 7	20. 0	38. 1	26. 2
1960: January.....	100	73. 0	27. 0	13. 7	19. 8	39. 2	27. 3
February.....	100	72. 8	27. 2	13. 5	17. 9	39. 5	29. 1
March.....	100	71. 4	28. 6	12. 3	15. 1	41. 5	31. 1
April.....	100	66. 1	33. 9	16. 9	24. 1	35. 7	23. 4
May.....	100	69. 8	30. 2	17. 5	26. 6	33. 5	22. 2
June.....	100	65. 8	34. 2	20. 3	28. 0	29. 4	22. 3
July.....	100	69. 5	30. 5	18. 6	27. 9	32. 4	21. 1
August.....	100	65. 9	34. 1	18. 8	22. 5	36. 2	22. 5
September.....	100	66. 5	33. 5	20. 6	27. 5	33. 1	18. 8
October.....	100	67. 6	32. 4	22. 0	25. 0	29. 6	23. 4
November.....	100	68. 5	31. 5	24. 9	21. 1	31. 4	22. 6
December.....	100	69. 1	30. 9	.....	.....	.....	.....

Source: Department of Commerce, Bureau of the Census. \*Beginning with 1959 data, distribution is based upon the revised definitions of standard metropolitan statistical areas published in 1959 by the Bureau of the Budget in *Standard Metropolitan Statistical Areas*. \*\*Composition of regions is shown below Table A-3. n. a.—Not available. <sup>1</sup>First 11 months 1959-60. <sup>†</sup>Revised.



Table B-3: New Private NonFarm 1-Family Houses Started: Average Construction Cost

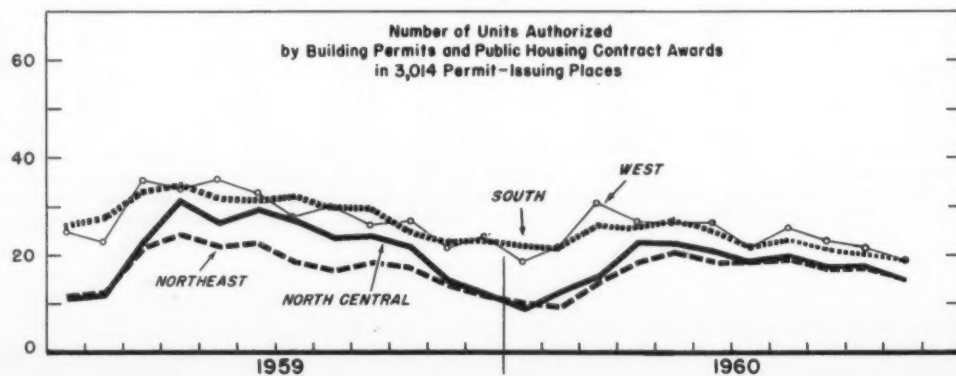
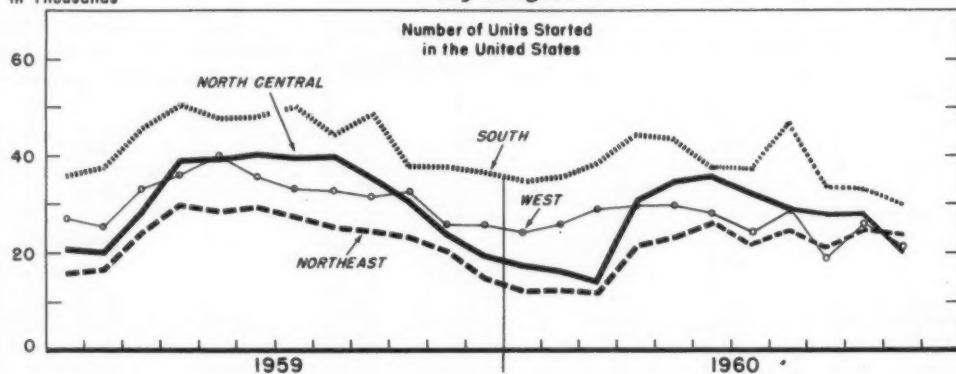
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
AVERAGE CONSTRUCTION COST													
Old series													
1950.....	\$7,625	\$7,850	\$8,225	\$8,450	\$8,450	\$8,750	\$8,875	\$9,125	\$8,900	\$9,200	\$9,075	\$9,200	\$8,675
1951.....	9,100	9,250	9,175	9,325	9,475	9,475	9,400	9,300	9,450	9,225	9,250	9,125	9,300
1952.....	9,050	9,275	9,350	9,550	9,575	9,675	9,500	9,425	9,600	9,525	9,550	9,525	9,475
1953.....	9,400	9,600	9,800	10,000	9,900	10,000	10,125	10,175	10,200	10,175	9,975	10,000	9,950
1954.....	9,750	9,800	10,075	10,600	10,850	10,750	10,850	10,750	10,675	10,800	10,850	11,075	10,625
1955.....	10,575	11,125	11,250	11,250	11,400	11,400	11,475	11,425	11,525	11,575	11,575	11,625	11,350
1956.....	11,325	11,750	12,150	12,275	12,300	12,300	12,375	12,275	12,325	12,425	12,675	12,350	12,225
1957.....	12,600	12,800	12,950	13,025	13,250	13,150	13,050	12,925	13,075	13,375	13,000	12,925	13,025
1958.....	12,775	12,875	13,000	13,100	13,150	13,025	13,025	12,550	12,925	13,125	12,925	12,800	12,950
1959.....	12,450	12,300	13,250	13,650	13,750	13,725	13,550	13,600	13,700	13,800	13,700	13,450	13,445
1960.....	13,600	13,650	13,975	13,850									
New series													
1959.....	12,505	12,482	13,244	13,600	13,743	13,865	13,608	13,326	13,312	13,919	13,476	13,197	13,357
1960.....	13,342	13,180	13,832	14,010	14,008	13,925	13,571	13,156	13,918	14,582	13,616		
Percent change, 1959 to 1960													
	+6.7	+5.6	+4.4	+3.0	+1.9	+ .4	- .3	-1.4	+4.6	+4.8	+1.0		

Source: Department of Commerce, Bureau of the Census. Note: The new series on average construction costs of new nonfarm 1-family houses is derived in the same way as the old and reflects only the new level of starts. <sup>2</sup> Revised.

Chart 1.

## New Housing Units By Region

In Thousands



Source: Department of Commerce.

C.D. 60-10-V

Table B-4: Housing Under Government Mortgage Insurance Programs

Period	FHA			VA			Number of starts in FHA and VA programs as a percent** of private nonfarm starts		
	Applications received*	First inspection (starts)	Mortgages insured*	Appraisal requests	First inspection (starts)	Loans closed			
	Number of dwelling units (in thousands)						Total	FHA	VA
1956.....	219.4	189.3	110.9	401.5	270.7	313.5	42	17	23
1957.....	229.7	168.4	92.6	159.4	128.3	218.8	30	17	13
1958.....	395.9	295.4	157.0	234.2	102.1	94.0	35	26	9
1959.....	420.9	332.5	227.8	234.0	109.3	145.3	29	22	7
1960.....	301.7	261.0	204.1	142.9	74.6	n.a.	27	21	6
1959: December.....	27.1	20.0	18.8	11.1	6.4	12.1	29	22	7
1960: January.....	22.0	15.9	18.2	11.2	4.1	10.2	24	19	5
February.....	24.6	17.7	17.4	12.9	4.8	9.1	26	20	6
March.....	34.2	21.9	16.8	12.9	5.2	9.4	31	25	6
April.....	28.0	25.4	14.7	13.7	7.3	8.3	27	21	6
May.....	26.9	25.2	14.1	14.4	6.9	8.4	25	20	5
June.....	29.2	26.5	16.7	15.2	7.7	9.5	28	22	6
July.....	24.0	23.6	15.8	8.5	7.4	8.4	29	22	7
August.....	27.5	26.3	19.1	12.4	8.2	9.4	28	21	7
September.....	23.3	21.9	18.7	11.6	6.8	8.8	30	23	7
October.....	23.4	22.6	18.0	10.0	5.9	8.3	27	21	6
November.....	18.9	20.2	17.5	10.3	5.5	7.6	28	22	6
December.....	19.9	13.9	17.2	10.0	4.8	n.a.	28	21	7
	Percent change								
December 1959-60.....	-26.6	-30.8	-8.7	-9.7	-25.1	.....	.....	.....	.....
1959-60.....	-28.3	-21.5	-10.4	-38.9	-31.7	.....	.....	.....	.....

Source: Table compiled by Department of Commerce (BDSA) from data reported by the Housing and Home Finance Agency (FHA) and the Veterans Administration. \*Excludes units under military and armed services programs. \*\*Percentages shown in italics are based on private nonfarm housing starts, "old series." †Revised. n.a.—Not available.

Table B-5: Nonfarm Mortgage Recordings of \$20,000 or Less: Number and Value by Type of Lender

(Excludes Alaska and Hawaii)

Period	Number (in thousands)	Average amount (dollars)	Total amount (in millions of dollars) recorded by—						
			All lenders	Savings and loan associations	Insurance companies	Commercial banks	Mutual savings banks	Individuals	All other lenders
1955.....	3,913	7,279	28,484	10,452	1,932	5,617	1,858	3,362	5,265
1956.....	3,602	7,521	27,088	9,532	1,799	5,458	1,824	3,558	4,917
1957.....	3,246	7,469	24,244	9,217	1,472	4,264	1,430	3,554	4,307
1958.....	3,441	7,959	27,388	10,516	1,460	5,204	1,640	3,435	5,133
1959.....	3,782	8,522	32,235	13,094	1,523	5,832	1,780	3,946	6,060
1959: November.....	288	8,476	2,442	952	137	409	152	314	478
December.....	293	8,472	2,487	963	138	410	152	327	497
1960: January.....	248	8,401	2,079	777	107	343	115	310	427
February.....	259	8,292	2,149	859	103	342	103	325	417
March.....	287	8,392	2,406	983	119	377	105	355	467
April.....	282	8,389	2,366	983	108	382	106	335	452
May.....	300	8,323	2,500	1,051	114	402	120	339	474
June.....	315	8,547	2,690	1,167	119	415	138	348	503
July.....	298	8,479	2,528	1,048	116	378	145	350	491
August.....	325	8,554	2,784	1,201	123	406	158	359	537
September.....	307	8,455	2,598	1,097	111	381	145	344	520
October.....	298	8,469	2,525	1,052	106	372	146	329	520
November.....	280	8,483	2,378	978	97	363	143	306	491
	Percent change								
November 1959-60.....	-3	(1)	-3	+3	-29	-11	-6	-3	+3
12 mos. ending									
November 1959-60.....	-8	.....	-9	-7	-11	-23	-12	+3	-5

Source: Table compiled by Department of Commerce (BDSA) from data reported by the Federal Home Loan Bank Board. <sup>1</sup>Change of less than one-half of 1 percent.



Table B-6: Publicly Owned Housing Starts, by Ownership and Program

Period	All public programs	Federally owned			State and locally owned					
		Total	Capehart	All other	Total	Federally aided (PHA)		New York City Housing Authority (excluding Federally aided)	All other	
						Total	New York City Housing Authority			
Number of units										
1956.....	24,236	8,752	3,783	4,969	15,484	4,794	981	5,189	5,501	
1957.....	49,103	25,518	23,642	1,876	23,585	17,473	2,856	2,762	3,350	
1958.....	67,907	36,312	34,667	1,645	31,595	19,970	1,102	6,319	5,306	
1959.....	36,690	14,999	14,590	409	21,691	13,860	2,003	3,966	3,865	
1959: November...	1,802	4	0	4	1,798	1,302	619	320	176	
December....	769	11	0	11	758	585	0	0	173	
1960: January....	1,334	552	285	267	782	580	0	0	202	
February....	2,340	34	0	34	2,306	2,060	0	0	246	
March.....	3,096	734	730	4	2,362	2,212	0	0	150	
April.....	1,710	306	300	6	1,404	1,038	0	168	198	
May.....	2,709	350	330	20	2,359	2,339	0	0	20	
June.....	5,106	1,355	1,250	105	3,751	3,372	.....	125	254	
July.....	3,811	701	690	11	3,110	2,990	1,750	.....	120	
August.....	4,813	1,618	1,564	54	3,195	2,467	.....	672	56	
September...	5,605	3,573	3,562	11	2,032	1,956	490	.....	76	
October.....	2,841	890	863	27	1,951	660	.....	1,291	.....	
November....	1,664	881	871	10	783	652	.....	.....	131	

Source: Department of Commerce, Bureau of the Census.

Table B-7.—Housing Vacancy Rates for the United States,<sup>1</sup> by Region<sup>2</sup> and Metropolitan<sup>3</sup> Areas

(Percent distribution)

Period	All dwelling units						Rental units			Home-owner units		
	Total	Vacant dwelling units				Occu- pied dwell- ing units	Total	Avail- able for rent	Renter occupied or rented	Total	Avail- able for sale	Owner occupied or sold
		Available for occupancy		Rented or sold	Other <sup>4</sup> vacant dwell- ing units							
		For rent	For sale									
United States												
April 1950.....	100	1.1	.5	<sup>4</sup> 1.7	<sup>4</sup> 3.6	93.1	100	2.6	97.4	100	.9	99.1
4th quarter: 1955 ....	100	2.2	.5	.4	5.6	91.3	....	( <sup>5</sup> )	( <sup>5</sup> )	....	( <sup>5</sup> )	( <sup>5</sup> )
1956.....	100	2.1	.4	.4	5.8	91.3	100	5.3	94.7	100	.8	99.2
1957.....	100	2.0	.5	.4	6.0	91.1	100	5.3	94.7	100	.9	99.1
1958.....	100	2.3	.6	.4	6.2	90.5	100	6.0	94.0	100	1.1	98.9
1959.....	100	2.4	.6	.4	6.1	90.5	100	6.4	93.6	100	1.0	99.0
1960: 1st quarter....	100	2.6	.6	.4	6.6	89.8	100	7.2	92.8	100	1.1	98.9
2d quarter ....	100	2.8	.7	.4	6.3	89.8	100	7.3	92.7	100	1.2	98.8
3rd quarter.....	100	2.8	.7	.5	6.0	90.0	100	7.6	92.4	100	1.2	98.8
4th quarter....	100	2.8	.7	.4	6.2	89.9	100	7.6	92.4	100	1.2	98.8

See footnotes at end of table.

Table B-7.—Housing Vacancy Rates for the United States,<sup>1</sup> by Region<sup>2</sup> and Metropolitan<sup>3</sup> Areas—Con.

(Percent distribution)

Period	All dwelling units					Rental units			Home-owner units			
	Total	Vacant dwelling units			Oc- cupied dwell- ing units	Total	Avail- able for rent	Renter occupied or rented	Total	Avail- ble for sale	Owner occupied or sold	
		Available for occupancy		Rented or sold								
		For rent	For sale									
Northeast												
April 1960.....	100	.7	.4	<sup>4</sup> 1.4	<sup>4</sup> 4.3	93.2	100	1.5	98.5	100	.9	99.1
4th quarter: 1955.....	100	1.2	.4	.4	6.1	91.9	.....	( <sup>5</sup> )	( <sup>5</sup> )	.....	( <sup>5</sup> )	( <sup>5</sup> )
1956.....	100	1.3	.3	.5	6.5	91.4	100	2.8	97.2	100	.7	99.3
1957.....	100	1.3	.5	.5	6.2	91.5	100	3.2	96.8	100	.9	99.1
1958.....	100	1.5	.4	.4	7.3	90.4	100	3.5	96.5	100	.9	99.1
1959.....	100	1.5	.5	.4	6.7	90.9	100	3.5	96.5	100	.9	99.1
1960: 1st quarter.....	100	1.8	.5	.4	7.0	90.3	100	4.4	95.6	100	.9	99.1
2nd quarter.....	100	1.9	.5	.5	6.4	90.7	100	4.4	95.6	100	.9	99.1
3rd quarter.....	100	1.9	.5	.6	6.3	90.7	100	4.6	95.4	100	1.0	99.0
4th quarter.....	100	1.8	.4	.6	7.0	90.2	100	4.1	95.9	100	.8	99.2
North Central												
April 1950.....	100	.7	.4	<sup>4</sup> 1.5	<sup>4</sup> 3.0	94.4	100	1.7	98.3	100	.7	99.3
4th quarter: 1955.....	100	1.7	.4	.4	3.7	93.8	.....	( <sup>5</sup> )	( <sup>5</sup> )	.....	( <sup>5</sup> )	( <sup>5</sup> )
1956.....	100	1.7	.4	.4	4.4	93.1	100	5.1	94.9	100	.7	99.3
1957.....	100	1.9	.4	.4	4.9	92.4	100	5.6	94.4	100	.7	99.3
1958.....	100	2.3	.8	.4	4.8	91.7	100	7.0	93.0	100	1.2	98.8
1959.....	100	2.2	.8	.4	5.0	91.6	100	6.7	93.3	100	1.2	98.8
1960: 1st quarter.....	100	2.5	.7	.4	6.1	90.3	100	7.7	92.3	100	1.1	98.9
2nd quarter.....	100	2.5	.6	.5	5.8	90.6	100	7.5	92.5	100	1.0	99.0
3rd quarter.....	100	2.7	.6	.5	5.0	91.2	100	8.0	92.0	100	1.0	99.0
4th quarter.....	100	2.5	.7	.4	5.3	91.1	100	7.6	92.4	100	1.2	98.8
South												
April 1960.....	100	1.5	.5	<sup>4</sup> 1.9	<sup>4</sup> 3.6	92.5	100	3.4	96.6	100	1.0	99.0
4th quarter: 1955.....	100	3.0	.5	.3	6.1	90.1	.....	( <sup>5</sup> )	( <sup>5</sup> )	.....	( <sup>5</sup> )	( <sup>5</sup> )
1956.....	100	2.8	.5	.4	6.3	90.0	100	7.3	92.7	100	.9	99.1
1957.....	100	2.5	.5	.3	7.2	89.5	100	6.4	93.6	100	1.0	99.0
1958.....	100	2.8	.6	.4	7.0	89.2	100	7.5	92.5	100	1.0	99.0
1959.....	100	2.9	.6	.4	7.1	89.0	100	8.0	92.0	100	1.1	98.9
1960: 1st quarter.....	100	2.9	.8	.4	7.4	88.5	100	8.3	91.7	100	1.3	98.7
2nd quarter.....	100	3.1	.8	.5	7.2	88.4	100	8.3	91.7	100	1.6	98.4
3rd quarter.....	100	3.1	.9	.4	7.0	88.6	100	8.9	91.1	100	1.5	98.5
4th quarter.....	100	3.0	1.0	.4	6.8	88.8	100	8.8	91.2	100	1.7	98.3
West												
April 1950.....	100	2.0	.7	<sup>4</sup> 2.3	<sup>4</sup> 3.3	91.7	100	4.9	95.1	100	1.3	98.7
4th quarter: 1955.....	100	3.2	.9	.5	7.2	88.2	.....	( <sup>5</sup> )	( <sup>5</sup> )	.....	( <sup>5</sup> )	( <sup>5</sup> )
1956.....	100	2.7	.5	.5	5.5	90.8	100	6.9	93.1	100	.9	99.1
1957.....	100	2.7	.6	.4	5.4	90.9	100	6.8	93.2	100	1.1	98.9
1958.....	100	2.4	.6	.5	5.7	90.8	100	6.3	93.7	100	1.1	98.9
1959.....	100	3.0	.4	.4	5.3	90.9	100	8.3	91.7	100	.7	99.3
1960: 1st quarter.....	100	3.5	.6	.4	5.3	90.2	100	9.7	90.3	100	1.0	99.0
2nd quarter.....	100	4.1	.7	.3	5.1	89.8	100	10.6	89.4	100	1.3	98.7
3rd quarter.....	100	3.9	.8	.6	4.9	89.8	100	10.2	89.8	100	1.4	98.6
4th quarter.....	100	4.5	.7	.3	5.0	89.5	100	11.4	88.6	100	1.3	98.7

See footnotes at end of table.

Table B-7.—Housing Vacancy Rates for the United States,<sup>1</sup> by Region<sup>2</sup> and Metropolitan<sup>3</sup> Areas—Con.

(Percent distribution)

Period	All dwelling units						Rental units			Home-owner units		
	Total	Vacant dwelling units				Occu- pied dwelling units	Total	Avail- able for rent	Renter occupied or rented	Total	Avail- able for sale	Owner occupied or sold
		Available for occupancy		Rented or sold	Other <sup>4</sup> vacant dwelling units							
		For rent	For sale									
Inside standard metropolitan statistical areas												
April 1950.....	100	1.1	.5	<sup>4</sup> 1.2	<sup>4</sup> 1.5	95.7	100	2.2	97.8	100	1.1	98.9
4th quarter: 1955.....	100	1.9	.6	.5	2.5	94.5	....	( <sup>5</sup> )	( <sup>5</sup> )	....	( <sup>5</sup> )	( <sup>5</sup> )
1956.....	100	1.8	.4	.5	2.7	94.6	100	4.3	95.7	100	.7	99.3
1957.....	100	1.7	.5	.5	2.6	94.7	100	4.1	95.9	100	.9	99.1
1958.....	100	2.0	.4	.5	2.5	94.6	100	4.7	95.3	100	.8	99.2
1959.....	100	2.1	.6	.5	2.9	93.9	100	5.3	94.7	100	1.0	99.0
1960: 1st quarter.....	100	2.5	.6	.5	2.9	93.5	100	6.1	93.9	100	1.1	98.9
2nd quarter.....	100	2.6	.7	.5	2.9	93.3	100	6.3	93.7	100	1.2	98.8
3rd quarter.....	100	2.8	.7	.6	2.7	93.2	100	6.8	93.2	100	1.2	98.8
4th quarter.....	100	2.8	.7	.4	2.8	93.3	100	6.7	93.3	100	1.2	98.8
Outside standard metropolitan statistical areas												
April 1950.....	100	1.2	.4	<sup>4</sup> 2.4	<sup>4</sup> 6.0	90.0	100	3.2	96.8	100	.7	99.3
4th quarter: 1955.....	100	2.5	.4	.3	9.7	87.1	....	( <sup>5</sup> )	( <sup>5</sup> )	....	( <sup>5</sup> )	( <sup>5</sup> )
1956.....	100	2.3	.5	.4	9.9	86.9	100	7.1	92.9	100	.9	99.1
1957.....	100	2.5	.5	.3	10.6	86.1	100	7.5	92.5	100	.9	99.1
1958.....	100	2.7	.8	.4	11.5	84.6	100	8.2	91.8	100	1.5	98.5
1959.....	100	2.6	.6	.3	10.9	85.6	100	8.3	91.7	100	1.1	98.9
1960: 1st quarter.....	100	2.9	.6	.3	11.8	84.4	100	9.2	90.8	100	1.1	98.9
2nd quarter.....	100	3.0	.7	.4	11.0	84.9	100	9.4	90.6	100	1.2	98.8
3rd quarter.....	100	2.8	.8	.4	10.3	85.7	100	9.2	90.8	100	1.3	98.7
4th quarter.....	100	2.9	.8	.3	11.0	85.0	100	9.3	90.7	100	1.4	98.6

Source: Department of Commerce, Bureau of the Census.

<sup>1</sup> Data for 1960 include Alaska and Hawaii. However, due to the small number of vacant units in the two states, the inclusion has a negligible effect on the vacancy rates. Thus, the data shown for 1960 can be regarded as being entirely comparable with data for earlier periods.<sup>2</sup> Composition of regions is shown below table A-3.<sup>3</sup> Distribution is based upon the 168 standard metropolitan statistical areas as defined at the time of the 1950 Census.<sup>4</sup> Includes units held off the rental or sale market, dilapidated units, and seasonal units for all periods except that of April 1950 when data for units held off the market were included with those rented or sold.<sup>5</sup> Not available.

## Part C—Building Permits

See note at beginning of Part C in September 1960 issue for description of series now being presented.

Table C-1.—Summary of Private Construction Authorized by Building Permits in 10,000\* Permit-Issuing Places in the United States:

Type of construction	Valuation (in millions of dollars)						Percent change	
	1960			November 1959	First 11 months		November 1959-60	1st 11 months 1959-60
	September	October	November		1959	1960		
All authorized construction**.....	1,719	1,613	1,468	1,396	20,393	18,551	+ 5	- 9
New housing units†.....	967	917	820	836	12,574	10,639	- 2	- 15
New nonresidential buildings.....	526	481	470	379	5,507	5,572	+24	+ 1
Industrial buildings.....	119	90	90	80	953	1,077	+13	+13
Office buildings.....	91	79	71	44	938	940	+61	( <sup>1</sup> )
Stores and other mercantile buildings	102	93	84	96	1,151	1,074	-13	- 7
Religious buildings.....	44	52	45	36	505	517	+25	+ 2
Residential garages.....	23	22	15	14	216	196	+ 7	- 9
All other nonresidential buildings..	148	145	165	109	1,720	1,771	+51	+ 3
Additions and alterations.....	192	184	154	146	2,025	2,056	+ 5	+2

Source: Department of Commerce, Bureau of the Census. \*Estimated data for the entire universe of more than 10,000 permit-issuing places is based upon monthly reports from about 3,500 permit-issuing places which account for more than 90 percent of total permit-authorized construction. \*\*Includes data for new nonhousekeeping residential buildings, not shown separately. †House-keeping only. <sup>1</sup>Change of less than one-half of 1 percent.

Table C-2.—Authorized New Residential Construction in 10,000\* Permit-Issuing Places in the United States: Valuation and Number, by Ownership and Type of Structure  
(Housekeeping units only)

Ownership and type of structure	Valuation (in millions of dollars)					Number of housing units				
	1960		Novem- ber 1959	First 11 months		1960		Novem- ber 1959	First 11 months	
	Oct.	Nov.		1959	1960	Oct.	Nov.		1959	1960
All new housing units.....	937	830	857	12,905	10,915	83,175	74,434	77,711	1,163,778	961,573
Private (permit author- ized).....	917	820	836	12,574	10,639	81,488	73,684	75,835	1,134,825	937,672
1-family.....	759	655	712	10,766	8,912	59,722	51,770	57,803	883,163	707,012
2-family.....	25	26	125	1,808	299	3,085	3,423	18,032	251,662	38,347
3-4 family.....	13	15			160	1,880	1,969			21,990
5-or-more family....	121	124			1,271	16,801	16,522			170,323
Public (contract awards)	20	10	21	331	276	1,687	750	1,876	28,953	23,901

See footnotes to table C-1 above.

Table C-3.—Authorized New Residential Construction in 3,014 Permit-Issuing Places in the United States: Valuation and Number, by Region,\* Ownership and Type of Structure  
(Housekeeping units only)

	Valuation (in millions of dollars)					Number of units				
	1960		November	First 11 months		1960		November	First 11 months	
	Oct.	Nov.	1959	1959	1960	Oct.	Nov.	1959	1959	1960
UNITED STATES										
All new housing units..	856.1	753.2	792.3	11,927.1	9,960.8	76,577	67,774	72,197	1,080,167	880,296
Private (permit au-										
thorized) .....	838.2	744.6	774.1	11,637.1	9,703.7	75,028	67,124	70,567	1,055,005	858,973
1-family .....	681.3	584.9	653.1	9,879.2	8,029.5	53,532	46,260	53,035	810,320	636,572
2-4 family .....	37.1	37.0	121.1	1,757.7	428.8	4,875	4,772	17,532	244,685	56,208
5-or-more-family	119.6	122.8								
Public (contract										
awards) .....	17.9	8.6	18.3	290.4	257.3	1,549	650	1,630	25,162	21,323
Northeast										
All new housing units..	191.5	169.8	160.4	2,205.9	2,009.1	17,244	14,813	13,774	198,414	176,356
Private .....	174.0	168.4	146.1	2,095.2	1,881.5	15,737	14,699	12,535	188,309	165,776
1-family .....	130.9	118.1	117.9	1,597.9	1,378.0	9,947	8,706	9,077	128,164	104,989
2-4 family .....	8.8	10.5	28.2	497.2	115.9	1,079	4,711	3,458	60,145	14,691
5-or-more-family	34.2	39.7								
Public .....	17.5	1.4	14.3	110.7	127.6	1,507	114	1,239	10,105	10,580
North Central										
All new housing units..	226.2	186.6	188.4	3,157.4	2,477.8	17,718	14,783	14,742	243,549	190,739
Private .....	226.2	183.8	187.0	3,102.1	2,423.1	17,716	14,547	14,613	239,357	185,957
1-family .....	193.5	151.0	164.8	2,785.8	2,128.2	13,662	10,827	11,741	202,111	151,184
2-4 family .....	9.5	9.9	22.3	316.1	106.4	1,000	1,075	2,872	37,246	11,034
5-or-more-family	23.1	22.9								
Public .....	( <sup>1</sup> )	2.8	1.4	55.5	54.8	2	236	129	4,192	4,782
South										
All new housing units..	196.3	187.4	215.8	3,168.6	2,556.6	19,920	18,972	22,444	320,831	250,295
Private .....	196.2	183.1	214.4	3,115.4	2,514.2	19,910	18,677	22,294	314,909	246,415
1-family .....	174.7	160.0	191.0	2,826.0	2,276.7	16,157	14,659	17,891	264,861	205,747
2-4 family .....	4.6	3.8	23.4	289.4	57.0	816	690	4,403	50,048	10,292
5-or-more-family	16.9	19.4								
Public .....	.1	4.3	1.5	53.4	42.5	10	295	150	5,922	3,880
West										
All new housing units..	242.1	209.4	227.7	3,395.2	2,917.3	21,695	19,206	21,237	317,373	262,906
Private .....	241.8	209.3	226.6	3,324.4	2,884.9	21,665	19,201	21,125	312,430	260,825
1-family .....	182.2	155.8	179.4	2,669.5	2,246.6	13,766	12,068	14,326	215,184	174,652
2-4 family .....	142.2	12.8	47.2	655.0	149.5	1,980	1,635	6,799	97,246	20,191
5-or-more-family..	45.4	40.8								
Public .....	.3	.1	1.1	70.8	32.4	30	5	112	4,943	2,081

Source: Department of Commerce, Bureau of the Census.

\*Composition of regions is shown below table A-3.

<sup>1</sup> Less than \$50,000.

Table C-4.—Private Construction Authorized by Building Permits in 3,014 Permit-Issuing Places in the United States: Valuation, by Region\* and Type of Construction

(Millions of dollars)

Type of construction	1960			November 1959	First 11 months		Percent change, 1st 11 mos. 1959-60
	September	October	November		1959	1960	
United States							
All authorized private construction**	1,552.3	1,463.8	1,316.4	1,274.9	18,628.9	16,702.7	- 10
New housing units †	875.3	838.2	744.6	774.1	11,637.1	9,703.7	- 17
New nonresidential buildings	478.9	436.9	413.3	341.0	4,822.5	5,091.6	+ 6
Industrial buildings	113.9	76.7	71.8	71.8	857.0	873.9	+ 2
Office buildings	84.0	77.1	66.4	40.0	843.6	871.5	+ 3
Service stations and repair garages	10.1	9.6	7.7	Not available		106.8	.....
Stores and other mercantile buildings	94.1	86.8	73.2	86.1	1,036.3	1,002.1	- 3
Religious buildings	35.8	41.0	41.6	32.2	454.5	415.9	- 8
Educational buildings	31.4	35.4	21.9	Not available		401.6	.....
Hospitals and other institutional buildings	26.8	29.3	23.2	Not available		318.8	.....
Amusement buildings	12.5	11.0	16.5	Not available		183.4	.....
Residential garages	19.3	18.0	12.1	12.4	190.9	166.9	- 13
All other nonresidential buildings	51.3	52.0	79.0	Not available		751.1	.....
Additions and alterations	165.7	159.5	135.3	127.9	1,771.9	1,790.6	+ 1
Northeast							
All authorized private construction**	329.2	310.3	301.2	250.6	3,628.2	3,387.1	- 7
New housing units †	185.3	174.0	168.4	146.1	2,095.2	1,881.5	- 10
New nonresidential buildings	92.8	97.4	98.7	63.1	1,103.0	1,113.8	+ 1
Industrial buildings	36.5	15.8	17.3	15.8	170.0	204.6	+ 20
Office buildings	8.8	21.0	19.0	4.9	288.8	210.0	- 27
Service stations and repair garages	1.4	1.2	1.0	Not available		13.9	.....
Stores and other mercantile buildings	16.9	14.1	13.5	13.0	171.2	173.4	+ 1
Religious buildings	6.6	8.2	8.0	6.6	93.4	77.7	- 17
Educational buildings	4.7	18.0	13.1	Not available		164.8	.....
Hospitals and other institutional buildings	4.1	5.8	3.5	Not available		80.0	.....
Amusement buildings	1.5	3.1	3.5	Not available		43.2	.....
Residential garages	3.2	3.5	2.5	2.7	33.8	29.2	- 14
All other nonresidential buildings	9.0	6.4	17.3	Not available		116.5	.....
Additions and alterations	33.2	34.7	29.5	25.8	353.6	356.5	+ 3
North Central							
All authorized private construction**	431.2	389.8	319.3	296.4	4,844.5	4,213.1	- 13
New housing units †	225.5	226.2	183.8	187.0	3,102.1	2,423.1	- 22
New nonresidential buildings	157.8	118.3	99.0	75.1	1,167.1	1,325.4	+ 14
Industrial buildings	33.7	19.7	27.4	15.2	271.5	260.1	- 4
Office buildings	29.0	15.1	10.7	8.9	128.8	171.8	+ 33
Service stations and repair garages	3.2	2.9	2.5	Not available		33.0	.....
Stores and other mercantile buildings	21.4	22.1	18.9	13.1	223.4	226.1	+ 1
Religious buildings	11.7	13.4	10.3	7.3	123.8	121.7	- 2
Educational buildings	17.0	9.3	4.9	Not available		131.6	.....
Hospitals and other institutional buildings	11.4	13.6	4.5	Not available		88.7	.....
Amusement buildings	3.4	2.7	4.2	Not available		36.3	.....
Residential garages	11.7	10.5	6.1	5.8	109.8	92.9	- 15
All other nonresidential buildings	15.2	8.8	9.5	Not available		162.9	.....
Additions and alterations	44.6	39.2	31.6	28.7	441.9	445.1	+ 1

See footnotes at end of table.



Table C-4.—Private Construction Authorized by Building Permits in 3,014 Permit-Issuing Places in the United States: Valuation, by Region\* and Type of Construction—Con.

(Millions of dollars)

Type of construction	1960			November	First 11 months		Percent change, 1st 11 mos. 1959-60
	September	October	November	1959	1959	1960	
South							
All authorized private construction**	368.1	360.2	361.7	363.3	5,034.5	4,412.3	- 12
New housing units†	211.1	196.2	183.1	214.4	3,115.4	2,514.2	- 19
New nonresidential buildings	108.3	107.2	134.6	109.9	1,352.5	1,380.7	+ 2
Industrial buildings	28.7	18.1	13.1	23.4	177.3	184.9	+ 4
Office buildings	14.8	21.4	22.9	14.4	211.9	255.7	+21
Service stations and repair garages	2.8	2.9	2.4	Not available		32.2	.....
Stores and other mercantile buildings	28.0	27.9	20.8	27.0	369.6	320.3	- 13
Religious buildings	12.4	15.0	17.9	13.7	146.3	148.2	+ 1
Educational buildings	4.6	4.3	2.6	Not available		69.0	.....
Hospitals and other institutional buildings	2.4	5.1	10.2	Not available		72.4	.....
Amusement buildings	3.4	2.1	4.8	Not available		49.6	.....
Residential garages	1.9	1.8	1.5	1.5	19.6	19.5	- 1
All other nonresidential buildings	9.3	8.5	38.5	Not available		228.7	.....
Additions and alterations	42.8	43.0	35.4	34.2	481.5	483.3	(1)
West							
All authorized private construction**	423.7	403.5	334.2	364.6	5,121.7	4,689.0	- 8
New housing units†	253.3	241.8	209.3	226.6	3,324.4	2,884.9	- 13
New nonresidential buildings	120.1	114.0	81.0	92.9	1,199.9	1,271.9	+ 6
Industrial buildings	15.0	23.0	14.0	17.4	238.2	224.3	- 6
Office buildings	31.4	19.5	13.8	11.8	214.1	233.9	+ 9
Service stations and repair garages	2.7	2.5	1.9	Not available		27.4	.....
Stores and other mercantile buildings	27.8	22.7	20.1	33.0	272.1	282.4	+ 4
Religious buildings	5.0	4.4	5.5	4.6	91.0	68.2	- 25
Educational buildings	5.1	3.7	1.3	Not available		36.1	.....
Hospitals and other institutional buildings	8.9	4.8	5.0	Not available		77.7	.....
Amusement buildings	4.1	3.1	3.9	Not available		54.1	.....
Residential garages	2.5	2.1	1.9	2.4	27.7	25.1	- 9
All other nonresidential buildings	17.5	28.2	13.7	Not available		242.8	.....
Additions and alterations	45.0	42.6	38.9	39.2	494.9	505.6	+2

Source: Department of Commerce, Bureau of the Census. \* Composition of region is shown below table A-3. \*\* Includes data for new nonhousekeeping residential buildings, not shown separately. † Housekeeping only. 1 Change of less than one-half of 1 percent.

Table C-5.—New Private Nonresidential Building Construction Authorized by Building Permits in 3,014 Permit-Issuing Places in the United States: Number for Selected Types of Buildings

Type of building	1960										
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.
Industrial buildings	861	919	1,159	1,282	1,196	1,115	1,016	1,073	1,087	1,082	936
Office buildings	520	549	763	712	734	745	641	758	761	725	649
Service stations and repair garages	502	505	659	792	666	684	609	787	715	609	541
Stores and other mercantile buildings	1,775	1,874	2,375	2,666	2,477	2,541	2,003	2,200	2,112	2,094	1,894
Religious buildings	310	350	403	464	531	544	500	512	481	496	422
Educational buildings	74	93	128	141	162	169	282	245	150	152	99
Hospitals and other institutional bldgs.	44	63	86	80	121	136	77	102	107	95	73
Amusement buildings	164	168	263	395	377	423	279	281	96	197	252
Residential garages	4,678	5,210	7,903	18,544	19,779	18,973	16,435	19,683	18,736	17,248	10,959

Source: Department of Commerce, Bureau of the Census.



Table C-6.—Private Construction Authorized by Building Permits in 3,014 Permit-Issuing Places in the United States: Valuation, by State

State	Valuation (in millions of dollars)						Percent change	
	1960			Nov. 1959	First 11 months		November 1959-60	1st 11 mos. 1959-60
	Sept.	Oct.	Nov.		1959	1960		
All states.....	1,552.3	1,463.8	1,316.4	1,274.9	18,628.9	16,702.7	+ 3	-10
Alabama.....	15.9	14.6	14.6	11.6	191.8	166.3	+ 26	-13
Alaska.....	1.3	1.6	.5	.4	15.3	18.2	+ 25	+ 19
Arizona.....	26.3	34.1	22.3	23.9	282.7	290.0	- 7	+ 3
Arkansas.....	5.0	4.3	4.0	3.9	54.6	54.9	+ 3	+ 1
California.....	278.5	264.9	228.4	244.0	3,448.3	3,148.7	- 6	- 9
Colorado.....	28.1	19.6	19.0	18.6	265.7	236.1	+ 2	-11
Connecticut.....	29.5	32.7	23.8	31.6	330.5	321.6	-25	- 3
Delaware.....	4.2	5.1	3.8	6.6	61.2	53.2	-42	-13
District of Columbia.....	3.4	4.6	9.5	2.6	49.7	52.4	+ 265	+ 5
Florida.....	76.3	75.1	79.9	93.6	1,081.1	964.3	-15	-11
Georgia.....	26.6	22.9	21.4	23.3	301.0	281.4	- 8	- 7
Hawaii.....	15.6	10.7	8.4	15.6	148.8	145.0	-46	- 3
Idaho.....	2.8	3.6	2.8	1.9	37.1	32.0	+ 47	-14
Illinois.....	111.8	96.5	82.2	63.9	1,117.8	1,012.8	+ 29	- 9
Indiana.....	30.9	27.0	21.0	22.9	357.5	306.1	- 8	-14
Iowa.....	14.1	12.7	11.6	9.5	168.2	139.0	+ 22	-17
Kansas.....	13.3	12.9	8.1	8.8	145.5	118.5	- 8	-19
Kentucky.....	8.8	10.5	12.3	11.0	151.5	125.2	+ 12	-17
Louisiana.....	17.7	17.2	37.5	15.7	266.4	244.4	+ 139	- 8
Maine.....	4.7	4.1	2.4	2.2	36.7	34.5	+ 9	- 6
Maryland.....	27.7	25.0	30.0	35.5	509.4	387.8	-15	-24
Massachusetts.....	34.1	43.9	34.7	38.2	476.6	407.3	- 9	-15
Michigan.....	55.0	52.9	40.6	35.6	687.8	594.0	+ 14	-14
Minnesota.....	29.7	31.9	25.6	27.5	327.4	289.7	- 7	-12
Mississippi.....	6.7	5.2	4.6	3.1	46.8	60.3	+ 48	+ 29
Missouri.....	36.2	26.5	25.8	21.2	382.1	328.5	+ 22	-14
Montana.....	3.9	3.5	2.4	1.1	34.7	32.0	+ 118	- 8
Nebraska.....	10.1	11.0	7.6	5.6	80.0	86.9	+ 36	+ 9
Nevada.....	8.6	6.3	7.2	3.4	65.8	87.3	+ 112	+ 33
New Hampshire.....	2.6	4.2	2.3	2.0	37.9	29.6	+ 15	-22
New Jersey.....	69.8	58.4	52.9	40.5	611.1	604.1	+ 31	- 1
New Mexico.....	7.1	4.5	6.5	6.2	104.7	77.4	+ 5	-26
New York.....	143.8	115.4	135.8	90.5	1,511.7	1,417.8	+ 50	- 6
North Carolina.....	16.4	15.7	19.6	16.3	198.5	205.4	+ 20	+ 3
North Dakota.....	4.5	7.0	1.7	1.7	39.6	37.9	0	- 4
Ohio.....	96.3	82.1	66.4	71.0	1,121.0	956.5	- 6	-15
Oklahoma.....	10.9	10.4	11.1	11.4	164.3	131.7	- 3	-20
Oregon.....	15.9	16.3	9.7	16.1	178.1	186.7	-40	+ 5
Pennsylvania.....	39.5	45.1	41.9	40.2	556.7	503.5	+ 4	-10
Rhode Island.....	5.0	5.9	6.7	4.4	57.9	63.2	+ 52	+ 9
South Carolina.....	3.6	7.2	3.9	9.9	110.4	57.8	-61	-48
South Dakota.....	3.0	2.3	2.6	1.1	32.9	29.9	+ 136	- 9
Tennessee.....	16.5	14.8	12.7	13.1	194.6	185.9	- 3	- 4
Texas.....	87.4	86.0	67.0	71.4	1,147.1	981.3	- 6	-14
Utah.....	9.5	10.1	7.9	9.2	130.3	104.4	-14	-20
Vermont.....	.3	.5	.6	1.1	9.2	6.2	-45	-33
Virginia.....	36.9	36.1	29.3	30.0	460.2	417.4	- 2	- 9
Washington.....	24.2	26.4	17.9	22.6	388.1	305.9	-21	-21
West Virginia.....	4.0	5.4	1.6	4.2	45.4	43.8	-62	- 4
Wisconsin.....	26.4	26.8	25.9	27.7	385.0	312.8	- 6	-19
Wyoming.....	2.1	1.9	1.2	1.5	21.7	25.5	-20	+ 18

Source: Department of Commerce, Bureau of the Census. \*In building permits and public housing contract awards.

Table C-7.—Number of Housekeeping Units in Authorized\* New Residential Construction in 3,014 Permit-Issuing Places in the United States, by State

State	Number of housekeeping units						Percent change	
	1960			November 1959	First 11 months		November 1959-60	1st 11 mos. 1959-60
	September	October	November		1959	1960		
All states .....	79,396	76,577	67,774	72,197	1,080,167	880,296	- 6	- 19
Alabama .....	889	837	755	732	16,718	10,410	+ 3	- 38
Alaska .....	45	29	30	6	236	343	( <sup>1</sup> )	+ 45
Arizona .....	1,776	1,435	1,402	1,634	11,576	19,629	- 14	+ 70
Arkansas .....	228	250	167	232	2,932	2,762	- 28	- 6
California .....	15,246	14,977	13,279	14,498	218,317	178,709	- 8	- 18
Colorado .....	1,637	1,349	1,310	1,001	14,655	15,437	+ 31	+ 5
Connecticut .....	1,250	1,267	951	1,384	17,175	14,297	- 31	- 17
Delaware .....	254	166	145	74	1,804	2,411	+ 96	+ 34
District of Columbia .....	80	305	731	144	1,349	2,327	( <sup>1</sup> )	+ 72
Florida .....	4,689	4,850	4,378	7,119	82,188	62,377	- 39	- 24
Georgia .....	1,656	1,648	1,458	1,233	21,341	18,960	+ 18	- 11
Hawaii .....	749	639	450	1,135	9,610	7,758	- 60	- 19
Idaho .....	135	118	130	97	1,672	1,288	+ 34	- 23
Illinois .....	3,748	4,106	3,103	2,793	52,994	42,524	+ 11	- 20
Indiana .....	1,357	1,217	1,044	1,150	18,193	14,177	- 9	- 22
Iowa .....	556	513	517	520	8,011	6,097	- 1	- 24
Kansas .....	668	397	391	471	7,754	5,494	- 17	- 29
Kentucky .....	575	580	518	740	8,678	6,718	- 30	- 23
Louisiana .....	737	867	693	963	15,243	10,059	- 28	- 34
Maine .....	168	145	126	92	1,642	1,407	+ 37	- 14
Maryland .....	1,655	1,264	1,745	2,081	26,167	19,817	- 16	- 24
Massachusetts .....	1,630	1,760	1,614	1,579	19,211	18,214	+ 2	- 5
Michigan .....	2,317	2,182	1,800	1,827	34,517	25,779	- 1	- 25
Minnesota .....	1,379	1,473	1,153	1,337	15,702	12,147	- 14	- 23
Mississippi .....	507	300	263	187	3,397	4,529	+ 41	+ 33
Missouri .....	1,553	1,162	1,256	1,265	22,950	15,757	- 1	- 31
Montana .....	171	180	156	74	1,566	1,482	+ 111	- 5
Nebraska .....	577	619	635	329	5,425	5,526	+ 93	+ 2
Nevada .....	530	306	456	173	3,287	4,748	+ 164	+ 44
New Hampshire .....	143	250	129	117	2,003	1,536	+ 10	- 23
New Jersey .....	2,995	3,249	2,518	2,361	37,076	32,835	+ 7	- 11
New Mexico .....	408	326	301	431	7,570	4,577	- 30	- 40
New York .....	8,376	8,006	6,860	5,834	88,793	78,011	+ 18	- 12
North Carolina .....	977	843	866	682	11,073	9,803	+ 27	- 11
North Dakota .....	172	207	74	100	2,615	1,562	- 26	- 40
Ohio .....	3,959	4,300	3,214	3,474	54,384	45,014	- 7	- 17
Oklahoma .....	525	681	638	629	8,829	7,328	+ 1	- 17
Oregon .....	774	602	532	670	8,370	8,127	- 21	- 3
Pennsylvania .....	2,558	2,224	2,219	2,063	29,022	26,321	+ 8	- 9
Rhode Island .....	312	311	316	310	3,094	3,483	+ 16	+ 13
South Carolina .....	205	213	187	222	3,550	2,450	- 16	- 31
South Dakota .....	128	157	192	67	1,939	1,337	+ 187	- 31
Tennessee .....	1,272	1,013	875	1,069	15,756	13,135	- 18	- 17
Texas .....	4,278	3,890	3,651	4,338	68,761	50,208	- 16	- 27
Utah .....	392	435	342	465	7,137	5,499	- 26	- 23
Vermont .....	18	32	35	34	398	252	+ 3	- 37
Virginia .....	2,331	2,085	1,828	1,888	31,160	25,580	- 3	- 18
Washington .....	1,090	1,193	755	961	21,886	13,885	- 21	- 37
West Virginia .....	123	128	74	111	1,886	1,421	- 33	- 25
Wisconsin .....	1,481	1,385	1,404	1,409	19,065	15,325	( <sup>2</sup> )	- 20
Wyoming .....	117	106	63	92	1,491	1,424	- 32	- 4

Source: Department of Commerce, Bureau of the Census. \*In building permits and public housing contract awards. <sup>1</sup>Increase exceeds 300 percent. <sup>2</sup>Change of less than one-half of 1 percent.<sup>1</sup>Increase

Table C-8.—Private Construction Authorized by Building Permits in Selected Permit-Issuing Places in Selected Metropolitan Areas\*

Metropolitan area	Valuation (in millions of dollars)										
	1960										
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.
Atlanta, Ga.....	15.3	13.0	19.6	18.5	25.3	19.8	13.3	16.7	18.5	13.8	15.3
Baltimore, Md.....	19.4	11.4	21.2	15.9	21.6	19.8	14.9	13.4	12.7	14.4	13.9
Birmingham, Ala.....	4.2	8.8	6.1	5.9	8.8	7.1	5.8	6.9	6.4	5.7	4.9
Boston, Mass.....	18.0	19.4	15.8	23.2	23.1	24.6	24.3	30.9	20.4	25.1	19.3
Buffalo, N. Y.....	5.6	3.9	4.5	9.7	10.6	9.7	8.5	12.0	10.5	8.1	6.8
Chicago, Ill.....	36.7	50.3	60.8	84.3	100.9	93.6	83.1	79.0	96.1	81.0	66.6
Cleveland, Ohio.....	9.8	20.7	17.8	29.1	33.4	28.2	25.5	43.2	30.2	17.5	18.9
Columbus, Ohio.....	4.9	5.7	11.1	8.9	15.0	8.7	10.3	11.3	9.1	13.3	10.8
Denver, Colo.....	10.3	10.7	15.1	18.3	22.7	16.5	18.7	18.1	24.7	14.9	14.7
Detroit, Mich.....	18.8	24.7	30.9	34.3	35.7	40.3	43.0	31.5	28.3	29.8	23.1
Indianapolis, Ind.....	5.6	5.6	6.0	11.4	9.3	8.1	7.6	4.8	10.6	5.7	4.7
Los Angeles-Long Beach, Calif..	99.7	117.0	182.0	131.5	136.2	167.2	129.4	148.9	117.5	134.2	104.5
Miami, Fla.....	14.9	18.8	17.4	18.3	16.4	41.0	15.5	18.9	14.0	13.8	22.2
Milwaukee, Wis.....	7.0	12.4	12.9	16.4	14.5	14.5	15.4	17.9	9.8	11.7	11.5
New York, N. Y.....	63.7	59.0	82.4	90.5	187.1	89.0	119.7	110.6	112.0	87.5	109.1
Philadelphia, Pa.....	17.9	17.3	34.4	40.6	28.8	38.6	26.4	29.1	27.6	29.2	26.9
Phoenix, Ariz.....	14.3	14.1	24.2	18.6	18.5	20.4	18.2	20.2	20.9	14.6	16.2
San Diego, Calif.....	31.5	25.1	33.1	26.9	24.7	18.4	21.6	29.2	20.7	15.3	10.8
San Francisco-Oakland, Calif....	30.9	36.2	48.7	49.0	48.2	44.6	38.1	47.3	44.0	40.8	34.2
Seattle, Wash.....	12.6	12.6	21.2	15.4	19.2	17.1	14.0	19.0	12.3	13.6	11.1
Washington, D. C.....	20.3	19.3	33.0	38.1	35.7	30.5	25.6	57.6	23.3	20.3	30.4

Source: Department of Commerce, Bureau of the Census.

\*As defined in *Standard Metropolitan Statistical Areas*, Bureau of the Budget, 1959.

Table C-9.—Number of Housekeeping Units in Authorized\* New Residential Construction in Selected Permit-Issuing Places in Selected Metropolitan Areas\*\*

Metropolitan area	Number of housekeeping units										
	1960										
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.
Atlanta, Ga.....	822	925	1,129	1,168	2,080	1,201	909	813	1,162	1,097	753
Baltimore, Md.....	701	396	880	652	627	576	611	454	593	460	441
Birmingham, Ala.....	240	316	332	339	464	624	320	324	282	255	254
Boston, Mass.....	765	1,091	532	868	807	893	882	833	812	731	834
Buffalo, N. Y.....	163	135	236	470	475	460	368	582	351	324	309
Chicago, Ill.....	1,634	2,325	3,384	3,652	4,752	3,531	3,329	3,166	2,873	3,463	2,639
Cleveland, Ohio.....	435	671	704	1,316	1,295	1,249	828	1,863	994	8,321	682
Columbus, Ohio.....	250	343	342	350	814	581	424	482	301	601	584
Denver, Colo.....	866	746	1,073	1,130	1,383	1,066	1,260	1,386	1,419	1,069	1,131
Detroit, Mich.....	770	1,270	1,260	1,593	1,674	1,596	1,475	1,407	1,257	1,133	1,019
Indianapolis, Ind.....	204	270	355	587	522	479	556	163	456	344	274
Los Angeles-Long Beach, Calif....	5,221	6,428	8,543	7,932	7,351	8,151	5,732	7,437	6,412	7,053	5,608
Miami, Fla.....	847	998	1,086	1,052	861	1,214	749	1,013	757	688	804
Milwaukee, Wis.....	300	554	738	1,144	982	607	599	692	545	680	761
New York, N. Y.....	4,086	2,630	4,350	5,806	8,650	4,964	6,533	6,575	6,463	6,904	5,472
Philadelphia, Pa.....	1,093	942	1,989	1,968	1,985	1,676	1,866	1,383	1,742	1,713	1,607
Phoenix, Ariz.....	1,148	1,251	2,089	1,328	1,465	1,628	1,113	1,448	1,501	1,110	1,144
San Diego, Calif.....	1,978	1,601	2,186	1,735	1,152	854	1,139	902	996	663	434
San Francisco-Oakland, Calif....	1,763	2,068	2,539	2,411	3,078	2,445	2,019	2,780	2,144	2,535	1,995
Seattle, Wash.....	489	597	845	755	635	633	561	845	532	599	406
Washington, D.C.....	1,092	1,055	1,687	2,121	2,762	1,450	1,779	1,959	1,474	1,394	2,099

Source: Department of Commerce, Bureau of the Census.

\*In building permits and public housing contract awards.

\*\*As defined in *Standard Metropolitan Statistical Areas*, Bureau of the Budget, 1959.

Table C-10.—Private Construction Authorized by Building Permits in Selected Permit-Issuing Places in Selected Metropolitan Areas\*: Valuation for the Current Year, by Type of Construction

First 11 months (Millions of dollars)

Type of construction	Atlanta, Ga.	Baltimore, Md.	Birmingham, Ala.	Boston, Mass.	Buffalo, N. Y.	Chicago, Ill.	Cleveland, Ohio
All authorized private construction**	189.1	178.6	70.6	244.1	89.9	832.4	274.3
New housing units †	110.6	79.8	30.9	104.9	48.3	452.4	170.4
New nonresidential buildings	56.8	72.7	23.1	95.2	27.9	280.0	75.5
Industrial buildings	10.8	12.0	3.2	13.5	6.4	66.1	13.9
Office buildings	15.4	6.9	4.3	17.2	2.6	50.7	7.5
Service stations and repair garages	1.5	.7	.3	.6	.9	5.5	1.4
Stores and other mercantile bldgs.	8.6	15.4	6.7	12.5	5.3	43.9	11.1
Religious buildings	10.2	6.6	2.7	8.5	2.5	18.2	2.9
Educational buildings	3.3	8.7	1.4	26.7	2.1	28.0	21.1
Hospitals and other inst. bldgs.	2.2	6.2	2.4	7.2	.6	22.6	1.1
Amusement buildings	1.7	3.4	1.0	4.0	1.6	6.0	4.4
Residential garages	.1	.7	.2	1.1	3.1	18.4	5.6
All other nonresidential bldgs.	3.1	12.1	1.4	3.7	2.7	20.6	6.3
Additions and alterations	18.4	24.0	12.6	40.4	12.1	86.2	28.2
	Columbus, Ohio	Denver, Colo.	Detroit, Mich.	Indian- apolis, Ind.	Los Angeles- Long Beach, Calif.	Miami, Fla.	Milwaukee, Wis.
All authorized private construction**	109.1	184.7	340.4	79.4	1,468.1	211.2	144.0
New housing units †	70.6	125.7	193.5	47.7	877.9	123.6	82.2
New nonresidential buildings	27.7	42.3	106.1	23.1	394.3	56.3	41.5
Industrial buildings	6.5	7.5	21.4	2.5	81.0	7.4	10.5
Office buildings	3.5	11.7	7.6	2.5	86.8	2.8	6.3
Service stations, etc.	.7	.9	2.8	.6	4.7	1.4	1.1
Stores, etc.	7.3	8.8	18.1	7.0	84.1	14.5	5.5
Religious buildings	2.7	1.9	6.8	1.1	14.6	11.4	3.5
Educational buildings	1.8	1.7	2.6	5.4	5.9	1.3	6.6
Hospitals, etc.	2.3	2.5	5.7	.1	19.8	5.3	2.4
Amusement buildings	.2	1.0	3.5	.4	18.7	2.0	.3
Residential garages	2.1	2.0	15.2	1.8	5.8	1.0	3.6
All other nonresidential bldgs.	.7	4.3	14.8	2.1	72.3	8.7	1.6
Additions and alterations	9.5	16.5	39.3	7.4	182.2	26.0	18.0
	New York, N. Y.	Philadel- phia, Pa.	Phoenix, Ariz.	San Diego, Calif.	San Francisco- Oakland, Calif.	Seattle, Wash.	Washington, D. C.
All authorized private construction**	1,110.6	316.8	200.2	257.3	462.0	168.1	332.9
New housing units †	627.3	182.0	133.4	169.9	282.0	95.0	208.4
New nonresidential buildings	367.6	102.0	48.4	67.1	107.4	46.8	95.5
Industrial buildings	35.9	22.2	4.8	6.0	21.9	11.9	4.8
Office buildings	134.0	14.0	14.3	6.1	18.3	5.8	24.1
Service stations, etc.	2.6	1.8	1.1	1.0	1.6	1.3	1.2
Stores, etc.	34.1	20.4	12.1	24.8	22.6	8.0	11.3
Religious buildings	19.3	7.4	3.3	3.1	8.1	2.7	8.3
Educational buildings	49.8	11.6	.2	1.2	3.0	1.5	3.1
Hospitals, etc.	44.4	3.8	1.4	6.6	13.1	5.1	4.5
Amusement buildings	12.9	4.0	1.1	4.2	4.8	3.5	3.9
Residential garages	5.5	1.9	.1	2.1	1.5	.9	.4
All other nonresidential bldgs.	29.2	9.3	11.6	12.1	12.5	5.4	34.0
Additions and alterations	84.7	34.1	15.5	18.8	66.7	21.6	23.2

Source: Department of Commerce, Bureau of the Census.

\*As defined in *Standard Metropolitan Statistical Areas*, Bureau of the

Budget, 1959. \*\*Includes data on new nonhousekeeping residential buildings, not shown separately. †Housekeeping only.

## Part D.—Contract Awards

**Table D-1: Contract Awards: Public Construction, Value, by Ownership and Type of Construction\***  
(Millions of dollars)

Period	All public construction				Federally owned			
	Total	Federally owned	State and locally owned	Residential buildings	Nonresidential buildings			
					Total	Educational	Hospital and institutional	Administrative and service
1955.....	9,000.5	1,556.0	7,444.5	61.4	885.5	21.6	77.5	66.7
1956.....	10,423.1	2,088.3	8,334.8	136.0	924.3	27.1	43.9	87.3
1957.....	11,473.8	2,317.3	9,156.5	406.2	776.5	48.4	78.9	148.3
1958.....	13,508.1	2,959.4	10,548.7	592.0	987.7	51.7	95.2	183.2
1959.....	11,595.7	2,484.8	9,110.9	271.4	885.7	64.1	59.3	199.0
1959: November.....	831.0	170.0	661.0	3.3	64.7	4.9	0	5.0
December.....	830.2	193.8	636.4	.2	35.6	1.2	1.3	6.1
1960: January.....	738.7	136.4	602.3	13.0	35.7	2.5	3.2	4.8
February.....	813.6	162.0	651.6	2.2	65.6	.4	1.7	18.3
March.....	1,140.1	221.2	918.9	15.0	116.7	4.1	1.0	70.3
April.....	1,076.8	166.3	910.5	7.8	45.7	4.5	.9	2.6
May.....	1,117.3	176.9	940.4	26.7	27.5	2.3	.6	5.5
June.....	1,424.2	332.3	1,091.9	28.6	108.7	4.0	27.7	10.2
July.....	1,133.1	59.4	1,073.7	10.7	20.7	.8	.3	8.9
August.....	1,048.9	98.7	950.2	26.9	19.5	.1	1.2	6.7
September.....	1,067.5	171.9	895.6	58.2	49.1	1.1	3.5	19.0
October.....	1,083.0	146.7	936.3	14.4	34.5	1.9	12.4	1.7
November.....	992.9	174.5	818.4	14.7	96.0	6.4	1.5	46.0
Percent change, first 11 months 1959-60								
	+ 8	- 19	+ 16	- 20	- 27	- 55	- 7	+ 1

Period	Federally owned—Con.							
	Nonresidential buildings—Con.					Airfields**	Conservation and development	Highways
	Other nonresidential buildings							
	Total	Airfield buildings	Troop housing	Warehouses	All other			
1955.....	719.7	103.8	54.1	84.0	477.8	157.4	271.9	58.5
1956.....	766.0	76.2	123.2	63.3	503.3	155.9	539.0	91.8
1957.....	500.9	98.9	60.9	35.0	306.1	182.2	563.8	91.5
1958.....	656.9	196.7	89.3	36.5	334.4	475.6	475.2	95.5
1959.....	563.3	179.2	45.6	22.1	316.4	333.4	528.5	85.9
1959: November.....	54.8	2.0	.1	1.0	51.7	14.8	59.4	22.0
December.....	27.0	10.1	.7	3.6	12.6	66.3	63.6	6.2
1960: January.....	25.2	3.7	5.0	1.1	15.4	37.4	32.4	9.7
February.....	45.2	15.3	4.6	.3	25.0	40.4	33.6	5.7
March.....	41.3	7.2	6.4	.6	27.1	34.5	16.5	16.1
April.....	37.7	13.2	4.8	2.4	17.3	47.2	45.7	8.5
May.....	19.1	8.3	2.3	1.8	6.7	28.9	58.5	16.1
June.....	66.8	8.3	2.3	3.1	53.1	69.6	53.1	13.2
July.....	10.7	.5	.4	.6	9.2	3.1	7.8	10.8
August.....	11.5	2.9	0	.9	7.7	6.0	22.5	9.8
September.....	25.5	3.3	.6	.7	20.9	5.1	18.6	11.2
October.....	18.5	8.0	1.5	.7	8.3	12.6	20.2	10.1
November.....	42.1	5.2	1.2	1.1	34.6	35.7	11.4	5.2
Percent change, first 11 months 1959-60								
	- 36	- 55	- 35	- 28	- 26	+ 20	- 31	+ 46

See footnotes at end of table.



**Table D-1: Contract Awards: Public Construction, Value, by Ownership and Type of Construction\*-Con.**  
(Millions of dollars)

Period	Federally owned-Con.			State and locally owned				
	Electric power	All other**	Residential buildings	Nonresidential buildings				Other
				Total	Educational	Hospital and institutional	Administrative and service	
1955.....	43.5	77.8	210.1	2,851.4	2,107.2	195.3	263.0	285.9
1956.....	177.5	63.8	253.2	3,202.8	2,289.0	278.9	320.8	314.1
1957.....	140.3	156.8	326.7	3,409.4	2,450.5	287.1	315.4	356.4
1958.....	137.8	195.6	479.7	3,576.2	2,407.6	334.5	455.6	378.5
1959.....	222.6	157.3	306.9	3,236.7	2,203.3	304.5	325.6	403.3
1959: November.....	.8	5.0	19.9	259.4	169.3	13.9	32.1	44.1
December.....	2.2	19.7	17.4	272.4	176.1	26.5	20.8	49.0
1960: January.....	5.5	2.7	13.6	215.7	161.4	16.1	16.7	21.5
February.....	5.2	9.3	32.7	220.0	140.5	15.3	35.9	28.3
March.....	8.9	13.5	38.4	355.0	259.6	25.9	40.2	29.3
April.....	1.9	9.5	23.8	304.0	209.0	21.7	41.8	31.5
May.....	9.9	9.3	39.9	358.9	265.8	31.7	34.0	27.4
June.....	30.6	28.5	55.5	365.3	236.0	38.9	52.4	38.0
July.....	2.8	3.5	47.0	318.0	213.3	23.7	45.6	35.4
August.....	7.8	6.2	49.7	308.2	221.8	17.5	36.0	32.9
September.....	25.5	4.2	36.6	284.2	194.0	7.5	29.3	53.4
October.....	48.6	6.3	27.6	317.0	217.5	27.5	38.1	33.9
November.....	5.9	5.6	65.1	276.8	208.3	14.5	26.5	27.5
Percent change, first 11 months 1959-60								
	- 31	- 28	+ 48	+ 12	+ 15	- 14	+ 30	+ 1

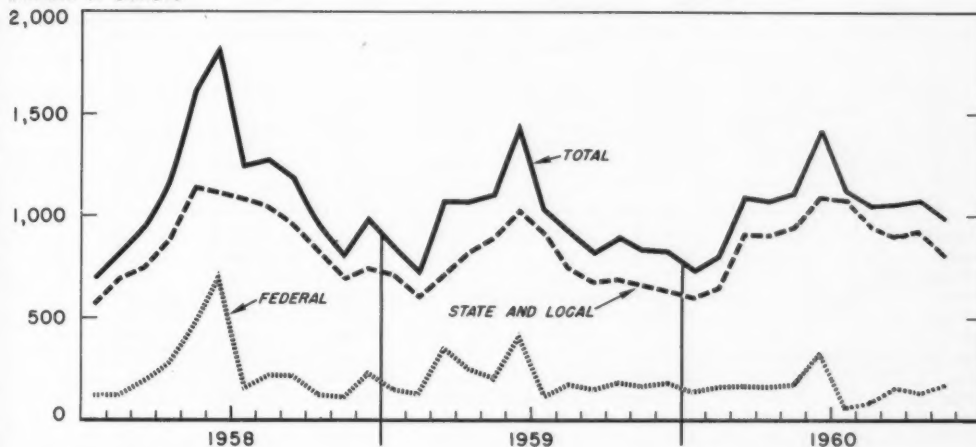
Period	State and locally owned-Con.								
	Highways	Sewer and water systems			Public service enterprises			Conservation and development	All other
		Total	Sewer	Water	Total	Electric power	Other		
1955.....	2,933.5	895.5	501.9	393.6	378.0	247.4	130.6	117.2	68.2
1956.....	3,211.6	1,100.0	658.9	441.1	336.5	227.2	109.3	139.3	91.4
1957.....	3,825.1	1,034.2	619.4	414.8	364.2	200.1	164.1	112.7	84.2
1958.....	4,489.3	1,050.0	708.2	341.8	669.5	450.0	219.5	123.3	160.7
1959.....	3,718.8	1,148.4	741.8	406.6	422.5	235.6	186.9	146.1	131.5
1959: November.....	281.4	61.0	45.5	15.5	26.6	11.8	14.8	6.3	6.4
December.....	231.6	79.4	57.4	22.0	16.5	4.5	12.0	12.4	6.7
1960: January.....	241.9	82.1	50.6	31.5	36.4	19.8	16.6	6.4	6.2
February.....	305.9	69.7	42.1	27.6	10.9	3.3	7.6	6.6	5.8
March.....	381.1	96.8	57.8	39.0	25.8	8.8	17.0	11.7	10.1
April.....	448.2	78.2	53.2	25.0	31.3	10.9	20.4	6.9	18.1
May.....	377.5	97.9	61.5	36.4	40.6	16.6	24.0	9.6	16.0
June.....	424.7	121.3	60.1	61.2	89.0	56.8	32.2	19.9	16.2
July.....	484.3	137.0	70.7	66.3	36.0	7.9	28.1	11.9	39.5
August.....	415.1	84.6	49.2	35.4	52.2	26.7	25.5	10.5	29.9
September.....	406.6	93.6	49.6	44.0	32.7	9.9	22.8	19.7	22.2
October.....	445.0	102.5	61.9	40.6	15.0	8.4	6.6	13.6	15.6
November.....	311.4	105.6	69.0	36.6	39.2	6.0	33.2	5.7	14.6
Percent change, first 11 months 1959-60									
	+ 22	(1)	- 9	+ 15	+ 1	- 24	+ 34	- 8	+ 56

Source: Department of Commerce, Bureau of the Census. \*Includes major force-account projects started, principally by TVA and State highway departments. \*\*Beginning with January 1958, includes missile launching facilities which were previously included under all other federally owned. <sup>1</sup>Change of less than one-half of 1 percent.

Chart 2.

## Contracts Awarded for Public Construction By Ownership

Millions of Dollars



SOURCE: DEPARTMENT OF COMMERCE

CONSTRUCTION REVIEW C.D. 60-10-6

Table D-2.—Contract Awards: Highway Construction, Value, by Ownership, Source of Funds, and Type of Facility\*  
(Millions of dollars)

Period	All highway construction	Federally owned	State owned					Locally owned**
			Total	Federally aided projects		Independent state projects		
				Total value	Federal funds	Total value	Toll facilities	
1955.....	2,992.0	58.5	2,559.8	1,256.1	667.4	1,303.7	694.9	373.7
1956.....	3,303.5	91.9	2,718.3	1,737.2	962.8	981.1	336.7	493.3
1957.....	3,916.6	91.5	3,311.0	2,390.4	1,613.9	920.6	343.0	514.1
1958.....	4,584.8	95.5	3,995.8	3,488.7	2,504.4	507.1	44.1	493.5
1959.....	3,804.7	85.9	3,212.6	2,638.1	1,876.7	574.5	59.2	506.2
1959: November.....	303.4	22.0	253.3	225.4	160.8	27.9	0	28.1
December.....	237.8	6.2	217.5	175.6	121.2	41.9	3.7	14.1
1960: January.....	251.6	9.7	190.0	164.7	111.9	25.3	3.9	51.9
February.....	311.6	5.7	220.3	117.6	128.3	42.7	12.9	85.6
March.....	397.2	16.1	296.8	246.8	174.8	50.0	1.3	84.3
April.....	456.7	8.5	399.7	341.5	252.5	58.2	.1	48.5
May.....	393.6	16.1	312.6	238.1	167.8	74.5	0	64.9
June.....	437.9	13.2	344.7	280.9	198.1	63.8	0	80.0
July.....	495.1	10.8	401.3	264.8	190.6	136.5	68.8	83.0
August.....	424.9	9.8	355.3	286.3	206.7	69.0	3.4	59.8
September.....	417.8	11.2	338.6	286.1	200.9	52.5	2.6	68.0
October.....	455.1	10.1	411.0	248.8	174.9	162.2	118.6	34.0
November.....	316.6	5.2	276.5	222.7	157.7	53.8	11.0	34.9
Percent change, first 11 months 1959-60								
	+22	+46	+18	+12	+12	+48	( <sup>1</sup> )	+41

Source: U.S. Department of Commerce, Bureau of the Census. \*Includes force-account work started on Federal and State projects.

\*\*By municipalities and counties. <sup>1</sup>Increase exceeds 300 percent.

**Table D-3: Contract Awards: Value Reported by the F. W. Dodge Corporation**  
(U. S. Summary, excluding Alaska and Hawaii)

Period	All construction	Building			Engineering			Dodge index of contract awards, seasonally adjusted (1947-49=100)
		Total	Residential	Non-residential	Total	Public works	Utilities	
	Value (in millions of dollars)							
1956.....	31,612	24,070	12,862	11,208	7,542	5,428	2,115	.....
1957.....	32,174	24,333	13,040	11,293	7,840	5,464	2,375	.....
1958.....	35,090	25,644	14,695	10,948	9,446	6,802	2,644	.....
1959.....	36,420	28,672	17,195	11,477	7,747	5,813	1,933	.....
1960.....	36,582	27,547	15,185	12,362	9,034	6,979	2,055	.....
	12 months ending in—							
1959: December.....	36,420	28,672	17,195	11,477	7,747	5,813	1,933	244
1960: January.....	36,294	28,560	17,100	11,460	7,732	5,794	1,936	235
February.....	36,232	28,474	17,015	11,455	7,756	5,804	1,951	234
March.....	35,949	28,392	16,776	11,616	7,556	5,892	1,663	252
April.....	35,557	27,914	16,430	11,484	7,641	5,921	1,719	266
May.....	35,366	27,742	16,211	11,531	7,623	5,784	1,839	244
June.....	35,179	27,518	15,932	11,586	7,660	5,873	1,787	272
July.....	35,119	27,118	15,571	11,547	8,000	6,036	1,964	285
August.....	35,330	27,216	15,453	11,763	8,113	6,098	2,015	276
September.....	35,391	27,145	15,264	11,881	8,244	6,263	1,981	271
October.....	35,575	27,182	15,139	12,043	8,392	6,455	1,937	294
November.....	36,088	27,458	15,300	12,158	8,630	6,627	2,003	280
December.....	36,582	27,547	15,185	12,362	9,034	6,979	2,055	302
	Percent change, 12 months ending in—							
December 1959-60.....	(1)	- 4	- 12	+ 8	+ 17	+ 20	+ 6	.....

Source: Table compiled by Department of Commerce (BDSA) from data published by the F. W. Dodge Corporation. <sup>1</sup> Change of less than one-half of 1 percent. <sup>†</sup> Revised.

**Table D-4: Contract Awards: Value Reported by the Engineering News-Record**  
(U. S. Summary, excluding Alaska and Hawaii)

Period	All construction contract awards	Ownership		Type of construction					
				Buildings		Highways and bridges	Sewer systems	Water systems	Unclassified and all other
		Private	Public	Private industrial	Other				
Value (in millions of dollars)									
1956.....	21,712	13,490	8,222	5,335	9,775	3,097	579	356	2,570
1957.....	17,986	8,386	9,600	3,081	7,791	3,745	556	369	2,444
1958.....	19,166	7,731	11,435	1,757	9,199	4,445	619	307	2,845
1959.....	20,279	10,388	9,891	2,981	9,992	3,456	653	373	2,824
12 months ending in—									
1959: *December.....	20,004	10,325	9,679	2,974	9,888	3,389	628	369	2,758
1960: January.....	19,868	10,352	9,515	2,970	9,795	3,347	641	357	2,759
February.....	19,955	10,381	9,573	3,004	9,820	3,393	641	336	2,762
*March.....	19,771	10,339	9,431	2,743	9,801	3,425	639	318	2,845
April.....	20,370	10,877	9,492	2,883	10,132	3,534	625	375	2,821
May.....	20,181	10,766	9,413	2,854	9,936	3,562	605	363	2,861
* June.....	20,839	11,269	9,570	2,866	10,390	3,517	607	382	3,078
July.....	20,647	11,359	9,288	2,921	10,414	3,407	603	388	2,917
August.....	20,963	11,508	9,455	2,899	10,686	3,473	587	385	2,937
*September.....	21,155	11,370	9,786	2,651	10,854	3,679	585	414	2,978
October.....	21,939	12,001	9,939	2,809	11,079	3,837	585	419	3,216
November.....	22,237	12,082	10,156	2,794	11,294	3,927	588	434	3,206
December.....	22,621	11,976	10,645	2,792	11,447	4,173	615	446	3,154
Percent change, 12 months ending in—									
December 1959-60.....	+ 13	+ 16	+ 10	- 6	+ 16	+ 23	- 2	+ 21	+ 14

Source: Table compiled by Department of Commerce (BDSA) from data published by the Engineering News-Record. Data include only those projects with contract values above the following minimum sizes: Water supply, earthwork, and waterways—\$44,000; other public works—\$73,000; industrial buildings—\$93,000; other buildings—\$344,000. \*Adjusted to 52 weeks.

## Part E.—Costs and Prices

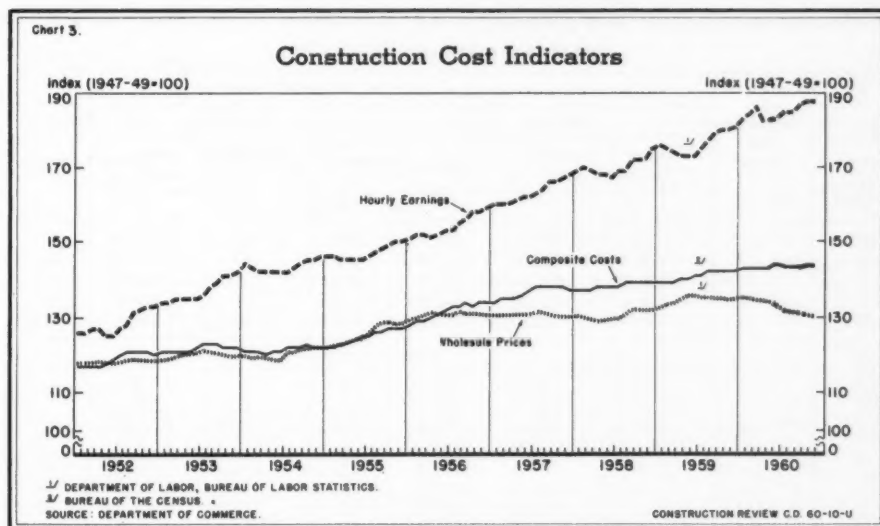


Table E-1.—Construction Cost Indexes  
(1947-49=100)

Period	Department of Commerce composite cost index*	Monthly and quarterly component indexes									
		American Appraisal Co.	Associated General Contractors	E. H. Boeckh and Associates			Engineering News-Record		Bureau of Public Roads, highway	Geo. A. Fuller Co.	Turner Construction Co.
				Residences	Apartments, hotels, and office buildings	Commercial and factory buildings	Building	Construction			
Annual averages											
1955.....	125	129	136	123.9	130.6	131.9	139.3	146.5	106.1	124	123
1956.....	132	135	143	129.4	137.0	138.7	145.9	153.8	113.4	130	134
1957.....	137	141	149	131.8	141.2	143.7	151.2	160.8	118.1	136	142
1958.....	138	145	154	133.0	143.6	146.7	156.0	168.6	116.3	142	142
1959.....	141	150	160	137.4	148.6	151.8	162.8	177.0	114.4	147	145
Current indexes											
1959: September...	142	151	162	138.4	149.9	153.0	165.2	180.3	113.5	148	145
October.....	142	151	163	138.4	149.9	153.0	165.1	180.2			
November....	142	152	163	138.7	150.1	153.2	164.7	179.8			
December....	142	152	163	138.9	150.4	153.6	164.3	179.6			
1960: January.....	143	152	163	139.8	151.5	154.4	165.1	180.5	111.0	149	145
February....	143	152	163	139.8	151.5	154.4	165.1	180.4			
March.....	143	152	164	139.5	151.1	154.2	165.0	180.7			
April.....	143	153	164	139.8	151.3	154.4	165.0	180.7			
May.....	143	153	164	140.1	151.8	154.9	165.8	182.7	110.5	150	145
June.....	144	153	165	140.3	152.1	154.9	166.4	183.5			
July.....	143	154	166	140.1	152.0	154.6	166.9	184.2			
August.....	143	154	166	139.8	151.8	154.3	166.8	184.4			
September...	144	155	166	139.8	151.9	154.4	167.2	184.5	112.9	151	145
October.....	144	155	166	139.4	151.8	154.3	166.9	184.2			
November...	144	155	166	n.a.	n.a.	n.a.	166.8	184.3			
Percent change											
November 1959-60...	+1	+2	+2	.....	.....	.....	+1	+3	1-1	2+2	2 0

Sources as stated above. \*A composite of cost indexes, compiled by the Bureau of the Census, representative of the major types of construction weighted by the current relative importance of each type. Other component indexes, available annually or semi-annually, are included on an interpolative basis. <sup>1</sup> Third quarter 1959-60. <sup>2</sup> Fourth quarter 1959-60. n.a. Not available.

Table E-2.—Indexes of Wholesale Prices of Materials Used in Construction, by Selected Groups and Commodities

(1947-49=100, unless otherwise noted)

Period	All construc- tion materials	Lumber and wood products							
		Softwoods			Selected hardwoods	Millwork	Plywood		
		Douglas fir	Southern pine	Other			Group index	Softwood	Hardwood
Annual averages									
1955.....	125.5	130.5	115.2	136.8	120.4	128.7	105.4	110.3	102.6
1956.....	130.6	129.9	119.2	137.4	126.0	129.1	101.7	100.8	104.7
1957.....	130.6	116.8	114.6	132.8	114.8	128.3	96.4	91.3	103.7
1958.....	130.5	114.6	112.8	129.4	114.4	128.2	97.1	91.8	104.5
1959.....	134.6	130.7	116.6	137.7	122.0	135.9	101.2	97.9	106.2
Monthly indexes									
1959: December ....	134.9	126.9	118.4	135.7	123.9	137.9	97.2	90.4	106.3
1960: January .....	135.2	127.7	118.1	135.3	124.6	137.8	98.2	92.2	106.3
February .....	135.0	127.3	117.5	136.0	124.1	137.7	97.0	89.5	106.9
March.....	134.5	126.9	117.2	135.6	124.5	137.7	95.9	86.5	107.8
April.....	134.3	125.7	117.2	136.0	125.1	136.8	96.1	86.9	107.8
May.....	133.9	124.1	116.8	134.9	125.2	136.9	95.7	85.9	108.2
June.....	132.9	120.7	116.0	132.3	125.2	136.9	95.5	85.5	108.2
July.....	132.1	118.7	114.7	130.4	124.0	137.2	95.5	85.5	108.2
August.....	131.4	115.6	113.8	126.5	121.0	136.7	94.7	84.0	108.2
September.....	131.1	114.2	113.0	124.0	120.5	135.5	96.4	87.1	108.2
October.....	130.5	111.5	112.0	122.6	119.0	135.3	97.1	88.3	108.5
November.....	*130.3	*109.9	110.8	*121.5	118.5	135.8	96.1	86.8	*107.9
December.....	130.0	111.0	110.4	120.8	117.9	135.7	95.1	86.3	106.5
Percent change									
December 1959-60..	- 4	-13	- 7	- 11	- 5	- 2	- 2	- 5	(1)
Period	Building paper and board			Prepared paint	Metals and metal products				
	Group index	Insulation board	Hard- board**		Selected finished steel products				
					Structural shapes	Reinforc- ing bars	Galvanized sheets, carbon	Black pipe, carbon	Wire nails, 8d common
1955.....	.....	130.9	.....	114.5	151.9	158.8	138.8	150.7	151.9
1956.....	.....	136.9	.....	120.0	162.9	169.7	148.2	168.7	165.3
1957.....	.....	141.5	.....	126.3	187.5	184.1	152.5	185.4	177.9
1958.....	143.2	144.5	99.3	128.3	195.4	190.8	156.6	191.5	182.2
1959.....	146.4	148.5	100.3	128.3	199.6	195.0	161.2	190.9	182.2
1959: December...	147.6	150.4	100.4	128.3	199.6	195.0	163.2	190.9	182.2
1960: January.....	147.6	150.4	100.4	128.3	199.6	195.0	163.2	190.9	182.2
February.....	147.6	150.4	100.4	128.3	199.6	195.0	*163.2	190.9	182.2
March.....	146.5	148.6	100.4	128.3	199.6	195.0	163.2	190.9	182.2
April.....	145.1	146.5	100.4	128.3	199.6	195.0	163.2	190.9	182.2
May.....	145.1	146.5	100.4	128.3	199.6	195.0	163.2	190.9	182.2
June.....	145.1	146.5	100.4	128.3	199.6	195.0	163.2	190.9	174.9
July.....	144.2	146.5	98.6	128.4	199.6	195.0	163.3	187.0	174.9
August.....	145.5	148.4	98.6	128.4	199.6	193.4	163.4	187.0	174.9
September....	145.3	148.2	98.6	128.4	199.6	193.4	163.4	187.0	174.9
October.....	145.7	148.5	98.9	128.4	199.6	193.4	163.4	187.0	174.9
November....	145.4	148.0	98.9	128.4	199.6	193.4	163.4	187.0	174.9
December....	145.4	148.0	98.5	129.7	199.6	193.4	163.4	187.0	174.9
Percent change									
December 1959-60..	- 1	- 2	- 1	+ 1	0	- 1	(1)	- 2	-4

See footnotes at end of table.



**Table E-2: Indexes of Wholesale Prices of Materials Used in Construction, by Selected Groups and Commodities-Con.**  
(1947-49=100, unless otherwise noted)

Period	Metals and metal products—Con.									
	Selected nonferrous metal products			Builders' hardware			Plumbing fixtures and brass fittings			
	Copper water tubing	Building wire, type RH-RW	Nonmetallic sheathed cable	Cabinet hinge	Door lock set	Butts	Group index*	Enameled iron fixtures	Vitreous china fixtures	Brass fittings
1955.....	156.5	126.6	96.5	127.6	128.9	168.4	125.4	130.3	118.9	126.5
1956.....	174.4	155.9	110.1	138.3	137.6	168.4	133.9	126.9	124.2	141.6
1957.....	151.2	132.7	84.0	137.5	147.1	168.4	130.2	126.1	124.2	137.4
1958.....	141.8	106.1	75.9	137.2	153.0	168.4	123.7	115.4	115.6	134.1
1959.....	149.4	126.9	87.7	136.7	155.1	168.4	130.1	120.7	122.6	142.2
1959: December...	156.1	145.8	95.9	136.4	155.1	168.4	133.2	125.3	127.4	144.1
1960: January.....	156.1	145.8	95.9	136.4	155.1	168.4	134.0	126.8	129.4	144.1
February.....	156.1	143.7	94.5	136.4	155.1	168.4	133.9	126.8	129.4	143.9
March.....	156.1	132.8	85.4	136.4	155.1	174.6	133.9	126.8	129.3	143.8
April.....	156.1	132.8	85.4	140.2	155.4	175.0	132.1	124.4	124.4	143.8
May.....	156.1	129.1	85.7	140.2	155.4	175.0	132.7	126.7	125.0	143.4
June.....	151.4	120.3	77.7	140.2	155.4	175.0	131.3	126.7	121.3	142.6
July.....	151.4	108.2	71.4	140.2	155.4	175.0	131.3	126.7	121.3	142.6
August.....	151.4	106.8	71.4	140.2	155.4	175.0	131.5	126.7	121.3	143.1
September...	147.7	106.8	71.4	140.2	155.4	171.9	131.5	126.7	121.3	143.1
October.....	121.5	109.8	73.9	140.2	155.4	171.9	130.8	126.7	121.3	141.5
November....	142.2	106.8	72.6	140.2	155.4	171.9	130.8	126.7	121.3	141.5
December....	116.2	106.8	72.6	140.2	155.4	171.9	130.8	126.7	121.3	141.5
Percent change										
December 1959-60...	- 26	- 27	- 24	+ 3	(1)	+ 2	- 2	+ 1	- 5	- 2

Period	Metals and metal products—Con.								Machinery and motive products	
	Heating equipment					Fabricated structural metal products			Elevators and escalators	Fans and blowers, except portable
	Group index*	Steam and hot water	Warm air furnaces	Fuel burning equipment	Water heaters, domestic	Metal doors, sash and trim	Roofing**			
							Steel	Corrugated aluminum		
1955.....	115.0	134.3	121.3	105.2	109.1	139.4	.....	.....	120.8	149.0
1956.....	119.0	139.6	126.3	108.9	107.8	145.6	.....	.....	128.3	166.0
1957.....	122.1	146.7	128.2	113.3	106.8	140.6	.....	.....	138.3	176.3
1958.....	121.2	150.9	122.8	116.0	101.9	141.8	102.3	96.5	139.3	180.4
1959.....	121.7	154.8	123.5	115.7	99.5	135.2	105.2	96.3	139.5	182.5
1959: December...	121.6	155.4	123.2	114.8	99.0	134.2	106.5	96.3	140.0	182.2
1960: January.....	120.9	155.4	122.5	114.8	97.2	134.5	106.5	99.4	140.0	182.2
February.....	120.3	155.4	121.9	115.1	94.9	134.6	106.5	100.9	140.0	182.5
March.....	120.1	155.4	122.0	115.4	93.8	134.8	106.5	100.9	140.0	182.5
April.....	120.1	155.4	122.0	115.4	93.9	132.6	106.5	100.9	140.0	182.5
May.....	120.2	155.6	121.8	115.4	93.9	131.6	106.5	100.9	139.9	182.5
June.....	120.0	155.6	121.9	115.8	92.6	131.8	106.6	100.9	139.9	182.5
July.....	118.7	154.7	121.3	115.8	88.8	131.8	106.6	100.9	140.3	182.5
August.....	118.8	154.8	121.6	115.8	88.8	131.8	106.6	104.3	140.3	184.2
September...	119.3	154.8	121.6	116.1	90.7	131.8	106.6	106.1	140.3	183.5
October.....	119.3	154.8	121.6	116.1	90.7	131.8	106.6	106.1	140.3	183.5
November....	118.4	154.8	119.6	116.1	89.4	132.0	106.6	106.1	140.3	183.5
December....	117.5	154.8	119.6	116.1	85.8	132.1	106.6	106.1	140.3	183.5
Percent change										
December 1959-60...	- 3	(1)	- 3	+ 1	- 13	- 2	(1)	+ 10	(1)	+ 1

See footnotes at end of table.

**Table E-2: Indexes of Wholesale Prices of Materials Used in Construction, by Selected Groups and Commodities—Con.**  
(1947-49=100 unless otherwise noted)

Period	Nonmetallic minerals—structural								
	Flat glass		Concrete ingredients			Concrete products			
	Plate	Window	Group index	Sand, gravel and crushed stone	Portland cement	Group index	Building block	Concrete pipe	Ready-mixed concrete**
1955.....	134.7	136.9	124.8	119.1	131.4	118.6	112.2	137.9	.....
1956.....	141.6	142.4	130.6	122.6	139.7	123.0	115.6	144.1	.....
1957.....	145.7	145.9	136.0	126.5	146.9	126.4	118.5	148.8	.....
1958.....	145.2	145.5	139.0	128.8	150.6	128.1	117.7	152.8	100.4
1959.....	144.7	145.3	140.3	129.9	152.2	129.7	117.5	159.1	101.6
1959: December.....	145.0	145.3	140.4	130.2	152.1	130.4	118.6	160.3	102.0
1960: January.....	145.0	145.3	142.0	130.5	155.1	130.5	119.1	160.3	102.0
February.....	145.0	145.3	142.0	130.5	155.2	131.1	120.1	160.3	102.4
March.....	145.0	145.3	142.1	130.7	155.2	131.0	120.1	160.3	102.3
April.....	145.0	145.3	142.1	130.8	155.2	131.3	120.4	160.6	102.6
May.....	137.3	135.8	142.1	130.8	155.2	131.5	120.4	160.6	102.7
June.....	137.3	135.8	142.1	130.7	155.2	131.3	120.4	160.5	102.6
July.....	137.3	135.8	142.1	130.8	155.2	131.3	120.4	160.5	102.5
August.....	137.3	135.8	142.2	131.0	155.1	131.1	120.4	159.4	102.5
September.....	137.3	141.2	142.2	131.0	155.1	131.0	120.4	160.1	102.3
October.....	137.3	141.2	142.1	130.8	155.1	131.0	120.4	160.1	102.2
November.....	137.3	141.2	142.1	130.7	155.1	131.0	120.4	160.1	102.3
December.....	137.3	141.2	142.0	130.6	155.1	131.0	120.4	160.1	102.2
Percent change									
December 1959-60.....	- 5	- 3	+1	(1)	+2	(1)	+2	(1)	(1)
Period	Nonmetallic minerals—structural—Con.								
	Structural clay products				Gypsum products				Prepared asphalt roofing
	Group index *	Building brick	Clay tile	Clay sewer pipe	Group index	Lath	Wallboard	Plaster, base coat	
1955.....	126.4	125.3	122.9	139.4	122.1	118.7	121.1	127.8	106.1
1956.....	133.2	132.9	127.2	149.3	127.1	123.5	124.9	136.2	111.7
1957.....	135.0	134.7	127.5	156.3	127.1	123.8	124.9	136.2	122.3
1958.....	135.9	135.6	128.6	158.2	132.1	127.8	129.5	143.2	112.8
1959.....	139.1	139.0	130.7	163.8	133.1	128.6	130.4	144.6	116.4
1959: December.....	139.9	139.9	131.3	164.8	133.1	128.6	130.4	144.6	113.6
1960: January.....	140.7	140.6	132.5	164.8	133.1	128.6	130.4	144.6	113.6
February.....	140.9	140.6	133.1	164.8	133.1	128.6	130.4	144.6	107.6
March.....	140.9	140.6	133.1	164.8	133.2	128.6	130.5	144.6	107.6
April.....	140.9	140.6	133.1	164.8	133.2	128.6	130.5	144.6	106.6
May.....	141.3	141.2	133.1	165.4	133.2	128.6	130.5	144.6	106.6
June.....	141.3	141.3	133.1	165.4	133.2	128.6	130.5	144.6	106.6
July.....	141.4	141.3	133.1	165.8	133.2	128.6	130.5	144.6	106.6
August.....	141.7	141.6	133.6	165.8	133.2	128.6	130.5	144.6	106.6
September.....	141.9	141.7	133.6	167.0	133.2	128.6	130.5	144.6	106.6
October.....	141.9	141.7	133.6	167.0	133.2	128.6	130.5	144.6	106.6
November.....	142.0	141.7	133.8	167.0	133.2	128.6	130.5	144.6	106.6
December.....	142.1	141.7	133.9	167.0	133.2	128.6	130.5	144.6	106.6
Percent change									
December 1959-60.....	+2	+1	+2	+1	(1)	0	(1)	0	-6

See footnotes at end of table.

Table E-2: Indexes of Wholesale Prices of Materials Used in Construction, by Selected Groups and Commodities—Con.  
(1947-49=100 unless otherwise noted)

Period	Nonmetallic minerals—structural—Con.			Furniture and other household durables			
	Other			Kitchen cabinets, metal, base only	Linoleum, inlaid	Asphalt floor tile	Rubber floor tile
	Group index*	Insulation materials	Asbestos cement shingles				
1955.....	121.7	106.6	136.8	131.7	120.4	96.5	107.7
1956.....	125.3	101.5	146.8	138.1	126.1	106.3	110.6
1957.....	130.5	102.8	155.1	145.1	126.7	100.8	113.2
1958.....	134.1	103.9	160.8	151.3	128.6	97.2	114.9
1959.....	136.6	103.1	166.0	151.9	130.3	99.4	114.9
1959: December.....	136.9	102.9	167.0	152.7	130.5	101.5	114.9
1960: January.....	137.5	102.9	168.4	152.8	135.3	101.5	114.9
February.....	139.3	102.9	172.8	152.8	135.3	101.5	114.9
March.....	139.3	102.9	172.8	152.8	134.2	101.5	114.9
April.....	140.8	105.7	172.8	152.8	134.2	101.5	114.9
May.....	141.2	106.5	172.8	152.8	134.2	101.5	114.9
June.....	141.2	106.5	172.8	152.8	134.2	101.5	114.9
July.....	141.2	106.5	172.8	150.6	134.2	101.5	114.9
August.....	141.2	106.5	172.8	150.6	134.2	101.5	114.9
September.....	140.9	105.8	172.9	150.6	134.2	101.5	114.9
October.....	142.0	104.4	177.6	150.6	134.2	101.5	114.9
November.....	<sup>†</sup> 139.1	<sup>†</sup> 98.9	177.6	150.6	134.2	101.5	114.9
December.....	139.1	98.9	177.6	150.6	134.2	101.5	114.9
Percent change							
December 1959-60.....	+2	-4	+6	-1	+3	0	0

Source: Department of Labor, Bureau of Labor Statistics.

\*Includes items not shown separately.

\*\*Introduced Jan. 1958. Jan.

1958=100. <sup>1</sup> Change of less than one-half of 1 percent. <sup>†</sup> Revised.

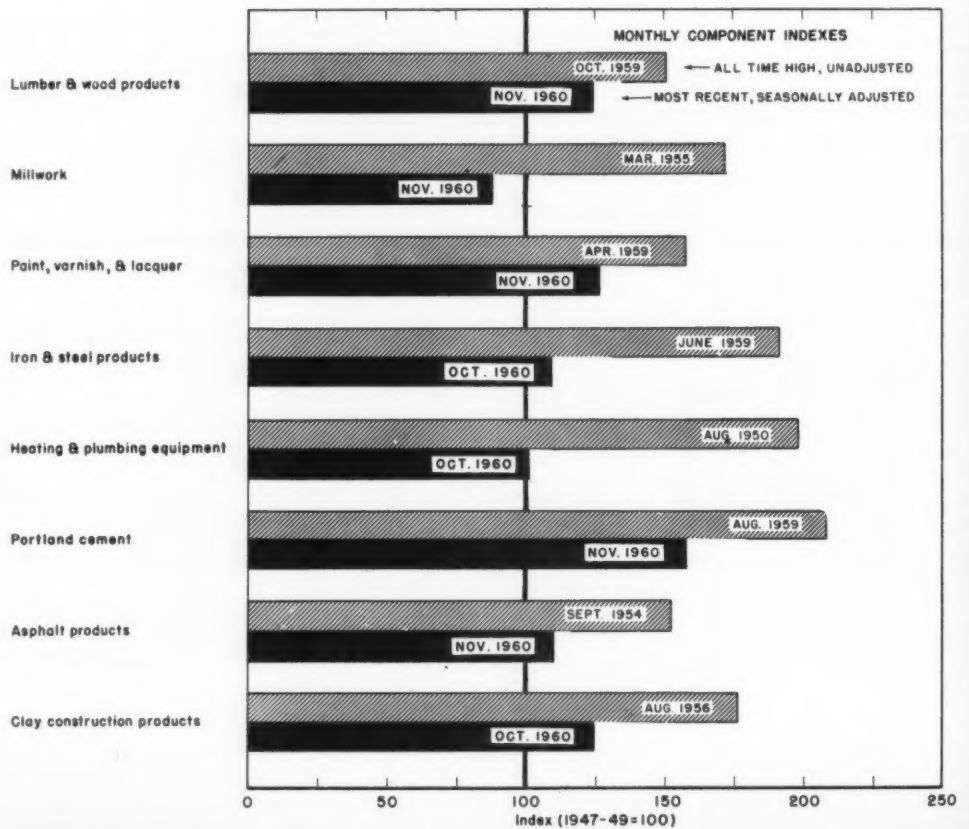
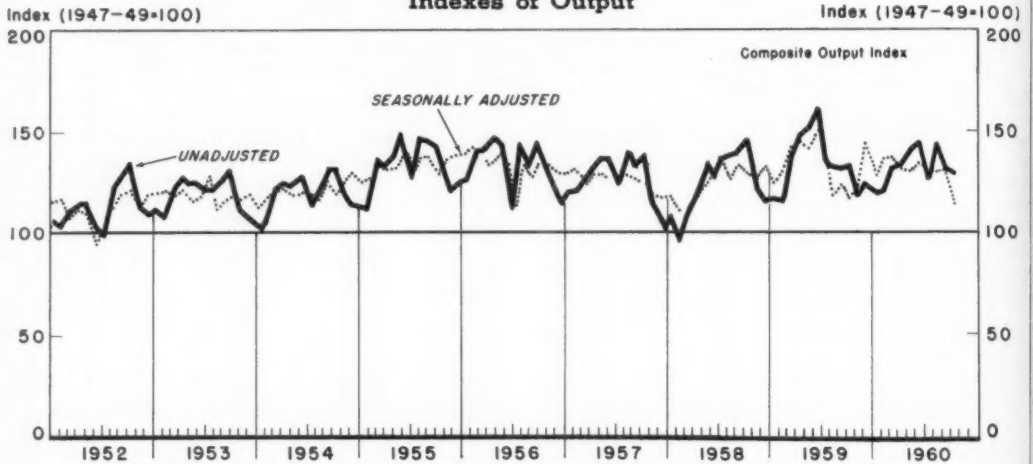
Tables E-3 and E-4, Union Hourly Wage Scales for Selected Building Trades, are shown quarterly in the March, June, September, and December issues.

## Part F.—Construction Materials

Chart 4.

### Construction Materials

#### Indexes of Output



SOURCE: DEPARTMENT OF COMMERCE.

CONSTRUCTION REVIEW C. D. 60-10-T

Table F-1.—Construction Materials: Indexes of Output, Unadjusted and Seasonally Adjusted  
(1947-49=100)

Period	Composite	Lumber and wood products	Mill-work	Paint, varnish and lacquer	Iron and steel products	Heating and plumbing equipment	Portland cement	Asphalt products	Clay construction products	Gypsum products	Plumbing fixtures
Annual averages											
1955.....	132.5	126.6	149.7	117.2	135.0	147.0	147.9	112.4	154.2	178.2	139.8
1956.....	133.6	128.0	132.9	117.2	141.6	137.1	157.7	101.8	160.0	170.4	128.5
1957.....	125.7	115.7	118.8	117.4	143.0	120.0	148.5	96.5	133.2	154.4	114.1
1958.....	124.9	122.0	108.4	120.3	123.6	126.6	155.3	102.6	132.3	172.5	117.9
1959.....	133.9	137.0	121.9	129.7	116.3	142.2	169.0	105.7	149.0	203.4	146.1
Unadjusted indexes											
1959: October.....	132.2	150.8	126.0	126.0	65.2	177.7	186.2	147.1	168.7	190.7	149.5
November.....	117.4	130.4	92.5	103.5	87.7	126.4	156.1	80.7	151.3		
December.....	124.3	130.2	78.1	103.5	125.4	116.2	144.2	64.8	146.2		
1960: January.....	119.4	127.2	79.9	115.6	125.6	94.4	112.4	59.0	128.0	168.9	140.9
February.....	120.8	133.3	94.0	117.9	115.6	117.9	96.8	74.8	128.6		
March.....	132.4	142.8	107.7	139.9	125.0	125.1	110.9	82.4	139.9		
April.....	135.3	137.3	104.0	145.3	129.0	119.3	162.6	84.5	144.6	200.1	137.9
May.....	141.7	142.0	99.2	148.0	134.1	113.4	191.6	107.3	151.8		
June.....	145.4	138.6	110.8	153.4	143.3	133.4	187.8	121.5	153.7		
July.....	127.6	115.8	89.5	136.8	125.0	107.9	191.3	122.1	138.5	203.8	124.2
August.....	145.6	142.0	111.7	145.3	135.7	138.8	199.0	136.3	157.6		
September.....	137.0	133.1	104.9	130.5	127.7	145.5	186.2	134.4	147.6		
October.....	129.6	129.8	92.6	120.1	120.0	130.2	188.1	120.1	143.2	.....	.....
November.....	n. a.	117.5	83.1	108.4	n. a.	n. a.	158.0	95.8	n. a.	.....	.....
Percent change											
October 1959-60.....	- 2	- 14	- 27	- 5	+ 84	- 27	+ 1	- 18	- 15	<sup>1</sup> - 11	<sup>1</sup> - 15
Sept.-Oct., 1960.....	- 5	- 2	- 12	- 8	- 6	- 11	+ 1	- 11	- 3	<sup>2</sup> + 2	<sup>2</sup> - 10
Seasonally adjusted indexes											
1959: October.....	116.0	133.8	108.5	119.7	59.1	138.6	160.8	115.7	147.1	.....	.....
November.....	122.9	137.4	98.0	120.6	88.7	128.8	156.7	93.2	146.0	.....	.....
December.....	144.2	155.6	93.3	130.4	132.7	151.3	153.2	102.7	154.9	.....	.....
1960: January.....	127.2	133.2	90.8	120.0	131.2	107.9	138.3	72.5	142.4	.....	.....
February.....	136.7	150.1	98.8	121.2	129.2	135.4	140.3	91.3	159.4	.....	.....
March.....	137.1	149.5	116.3	145.1	123.5	133.7	125.5	90.1	152.2	.....	.....
April.....	133.1	132.7	103.7	140.5	126.8	122.4	164.7	83.7	147.0	.....	.....
May.....	132.1	129.3	101.8	134.1	126.7	118.0	169.0	111.2	144.8	.....	.....
June.....	136.3	132.1	103.4	140.7	128.9	136.5	171.8	114.7	149.4	.....	.....
July.....	132.2	121.4	98.2	127.6	141.7	113.9	186.5	103.2	132.9	.....	.....
August.....	132.1	126.9	91.3	132.9	131.0	124.4	171.7	103.3	142.2	.....	.....
September.....	131.3	128.8	93.9	130.2	128.5	111.0	166.4	117.2	142.3	.....	.....
October.....	114.7	115.2	79.8	114.1	108.8	101.6	162.4	94.5	124.8	.....	.....
November.....	n. a.	123.8	88.0	126.3	n. a.	n. a.	158.6	110.6	n. a.	.....	.....
Percent change											
Sept.-Oct., 1960.....	- 13	- 11	- 15	- 12	- 15	- 8	- 2	- 19	- 12	.....	.....

Table compiled by the Department of Commerce (BDSA) from data reported by various government agencies and by private firms as shown in the tables following in Part F. n.a.—Not yet available. <sup>1</sup> Revised. <sup>2</sup> 3rd quarter 1959-60. <sup>3</sup> 2nd quarter-3rd quarter 1960.



Table F-2: Lumber and Wood Products: Production, Shipments, and Stocks

Period	Softwood lumber <sup>1</sup> (Million board feet)			Hardwood flooring <sup>1</sup> (Thousand board feet)			Douglas fir plywood <sup>2</sup> (million square feet)	Insulating boards <sup>3</sup> (Tons)	Hardboard <sup>1</sup> (Tons)
	Production	Shipments	Stocks*	Production	Shipments	Stocks*	Production		
1955.....	30,293	30,198	5,386	1,268,104	1,258,914	70,045	4,947	1,092,890	529,558
1956.....	30,661	29,964	6,087	1,166,446	1,117,010	114,074	5,191	1,102,012	539,981
1957.....	26,758	26,952	5,894	953,706	947,023	107,028	5,378	994,000	569,000
1958.....	27,381	27,665	5,613	927,294	922,789	99,111	6,340	<sup>†</sup> 1,056,830	<sup>†</sup> 608,623
1959.....	29,709	29,582	5,766	1,034,098	1,022,299	95,470	7,752	<sup>†</sup> 1,172,880	<sup>†</sup> 734,428
1959: November.....	2,299	2,075	5,643	80,379	72,515	87,645	666	76,729	65,004
December.....	2,387	2,266	5,766	81,167	73,217	95,470	610	76,043	60,657
1960: January.....	2,127	2,047	5,847	76,581	74,725	96,058	713	82,795	68,228
February.....	2,356	2,161	6,059	75,334	71,969	98,250	678	81,253	71,420
March.....	2,564	2,340	6,283	82,065	74,789	105,401	703	86,387	73,632
April.....	2,451	2,432	6,316	77,614	75,732	107,308	677	87,903	73,126
May.....	2,580	2,574	6,322	80,655	75,822	112,366	678	<sup>†</sup> 94,439	66,793
June.....	2,563	2,516	6,368	79,699	83,748	108,317	635	94,117	61,064
July.....	2,082	2,069	6,145	66,176	66,796	105,542	546	89,144	57,810
August.....	2,574	2,476	6,238	81,648	83,017	102,427	681	95,972	<sup>†</sup> 65,315
September.....	2,396	2,331	6,302	79,473	79,126	100,697	635	91,171	<sup>†</sup> 66,855
October.....	2,178	2,122	6,353	77,340	73,944	102,840	n. a.	<sup>†</sup> 90,159	<sup>†</sup> 70,781
November.....	1,970	1,919	6,422	73,095	67,848	107,822	n. a.	77,031	66,225
Percent change									
November 1959-60.....	-14	-8	+14	-9	-6	+23	.....	( <sup>4</sup> )	+2
12 mos. ending November 1959-60.....	-4	-8	.....	-9	-11	.....	.....	-4	+2

Table compiled by Department of Commerce (BDSA). Sources: <sup>1</sup>National Lumber Manufacturers Association; <sup>2</sup>Douglas Fir Plywood Association (monthly data are estimated from quarterly totals); <sup>3</sup>Department of Commerce, Bureau of the Census. \*As of end of period. <sup>†</sup>Revised. n. a. -- Not available. <sup>4</sup>Change of less than one-half of 1 percent.

Table F-3: Shipments of Millwork Products and Production of Paint, Varnish, and Lacquer

Period	Millwork products				Paint, varnish, and lacquer <sup>2</sup>
	Ponderosa pine doors <sup>1</sup>	Hardwood doors <sup>1</sup>	Sash <sup>1</sup>	Exterior frames <sup>1</sup>	
Shipments (Thousands of units)					Production for trade sales (Thousands of gallons)
1955.....	<sup>3</sup> 2,253	<sup>3</sup> 6,786	<sup>3</sup> 12,734	<sup>3</sup> 7,260	312,510
1956.....	<sup>3</sup> 2,035	<sup>3</sup> 6,404	<sup>3</sup> 10,551	<sup>3</sup> 5,680	312,541
1957.....	2,028	5,611	9,887	5,273	313,128
1958.....	1,829	4,308	9,432	6,247	320,800
1959.....	2,474	4,613	11,049	7,118	346,000
1959: November.....	173	292	768	408	23,000
December.....	145	254	614	338	23,000
1960: January.....	139	265	587	356	25,700
February.....	179	315	668	397	26,200
March.....	199	371	650	471	31,100
April.....	195	336	658	498	32,300
May.....	161	321	700	486	32,900
June.....	188	325	824	602	34,100
July.....	118	289	596	485	30,400
August.....	170	348	850	577	32,300
September.....	157	367	725	467	29,000
October.....	163	300	716	418	26,700
November.....	151	295	560	329	24,100
Percent change					
November 1959-60.....	-12	+1	-27	-19	+3
12 mos. ending 1959-60.....	-22	-19	-28	-25	+1

Table compiled by Department of Commerce (BDSA) Sources: <sup>1</sup>National Wood Work Manufacturers Association (whose data are from member firms only and are not adjusted to represent full coverage); <sup>2</sup>Department of Commerce, Bureau of the Census. <sup>3</sup>Production Special tabulations prepared by the source agency indicate only minor differences between production and shipments. See note to table F-3 in the April 1959 issue.

**Table F-4: Iron and Steel Products: Shipments, Bookings, and Backlog**  
(Thousands of tons)

Period	Selected steel mill products <sup>1</sup>						Cast-iron pipe <sup>2</sup> and fittings		Rigid steel conduit <sup>3</sup>	Fabricated structural steel <sup>4</sup>		
	Line pipe	Concrete reinforcing bars	Galvan- ized sheets	Nails	Piling	Rails	Pres- sure	Soil	Domes- tic sales billed	Ship- ments	Book- ings	Back- log*
Shipments												
1955.....	3,084	2,164	2,864	651	391	1,234	1,682	870	281	3,659	4,651	1,029
1956.....	3,376	2,518	2,958	557	433	1,300	1,747	818	359	3,780	4,736	1,313
1957.....	4,219	2,300	2,393	447	570	1,283	1,351	758	353	4,180	3,073	1,125
1958.....	2,608	2,034	2,827	418	440	580	1,278	784	327	3,664	2,773	1,135
1959.....	2,803	2,174	2,771	392	341	632	1,441	862	295	2,904	3,223	1,194
1959: November.....	136	163	197	34	20	12	96	60	12	181	260	1,162
December.....	268	213	302	44	44	59	92	51	31	236	366	1,194
1960: January.....	283	185	323	43	46	106	87	57	34	209	221	1,199
February.....	234	140	290	34	37	81	76	50	26	241	289	1,269
March.....	239	145	329	28	37	89	83	56	17	277	343	1,237
April.....	245	165	296	23	41	90	119	69	16	287	345	1,339
May.....	270	192	288	26	26	96	136	75	21	285	270	1,299
June.....	273	210	276	27	44	75	145	80	23	333	268	1,276
July.....	243	183	239	23	35	47	121	67	21	301	270	1,258
August.....	246	233	227	29	33	39	139	84	23	332	262	1,227
September.....	229	208	215	27	30	20	135	71	24	324	260	1,183
October.....	162	229	210	25	36	20	117	67	24	314	220	1,180
November.....	126	176	198	20	35	30	n. a.	n. a.	20	289	240	1,139
Percent change												
November 1959-60.....	-8	+ 8	+ 1	-40	+ 73	+ 150	6 -16	6 -4	+ 63	+ 60	-8	-2
12 mos. ending November 1959-60.....	+ 5	+ 8	+ 17	-6	+ 35	+ 22	7 -6	7-10	-2	+ 17	+ 10	.....

Table compiled by Department of Commerce (BDSA). Sources: <sup>1</sup> American Iron and Steel Institute; <sup>2</sup> Department of Commerce, Bureau of the Census; <sup>3</sup> National Electric Manufacturers Association; <sup>4</sup> American Institute of Steel Construction, Inc. \*Scheduled for fabrication in the next 4 months. <sup>5</sup> No data available because of the steel strike. <sup>6</sup> October 1959-60. <sup>7</sup> 12 months ending October 1959-60. n. a.—Not available. † Revised.

**Table F-5: Heating and Plumbing Equipment: Shipments and Stocks**  
(In thousands of units, except as noted)

Period	Gas water heaters		Cast-iron convectors and radiators (Thousand sq. ft.)		Furnaces				Residential oil burners, sold separately
					Warm air (all types and fuels)		Floor and wall		
	Shipments	Stocks*	Shipments	Stocks*	Shipments	Stocks*	Shipments	Stocks*	
1955.....	2,634	188	30,863	4,884	1,406	208	615	73	610
1956.....	2,712	134	29,567	3,810	1,355	218	492	70	532
1957.....	2,825	79	24,892	3,482	1,131	183	469	65	425
1958.....	† 2,911	† 141	22,350	† 3,993	† 1,235	† 169	† 495	† 47	382
1959.....	† 2,995	† 105	† 23,559	† 5,181	† 1,435	† 183	† 573	† 50	† 411
1959: October.....	280	53	2,720	3,270	175	180	72	52	49
November.....	203	42	2,196	2,869	122	165	54	45	30
December.....	195	105	1,479	5,181	88	183	39	50	20
1960: January.....	202	49	1,151	3,483	78	175	28	56	26
February.....	202	64	1,363	3,654	80	202	28	58	27
March.....	231	77	1,483	4,213	83	230	34	64	23
April.....	203	77	1,212	4,648	87	252	36	70	23
May.....	193	69	1,247	4,908	88	265	34	74	24
June.....	238	89	1,471	4,976	107	275	33	82	† 31
July.....	241	57	1,348	4,334	99	260	34	80	19
August.....	262	49	1,769	3,763	132	245	48	95	27
September.....	213	58	2,114	3,366	147	226	54	73	40
October.....	179	71	1,935	2,798	140	197	60	67	42
Percent change									
October 1959-60.....	-36	+ 35	-29	-14	-20	+ 10	-16	+ 31	-14
12 mos. ending October 1959-60.....	-16	.....	-19	.....	-13	.....	-15	.....	-21

Table compiled by Department of Commerce (BDSA) from data reported by the Bureau of the Census. \*As of end of period.

†Revised.

Table F-6, Plumbing Fixtures, is published quarterly in the January, April, July and October issues.

**Table F-7.—Portland Cement: Production and Shipments in the United States and Puerto Rico; Destination of Shipments by Geographic Division; Stocks**  
(Thousands of barrels)

Period	Pro- duction	Total ship- ments*	Destination of shipments*									Stocks**
			New England	Middle Atlan- tic	East North Central	West North Central	South Atlan- tic	East South Central	West South Central	Moun- tain	Pacific	
1955.....	296,829	296,275	11,843	44,814	60,030	32,650	35,299	14,646	35,432	12,843	39,607	17,536
1956.....	316,465	311,571	13,234	45,273	66,433	32,920	37,156	15,268	35,916	14,178	43,098	22,412
1957.....	297,801	291,741	12,773	41,413	61,858	28,772	36,272	14,251	33,078	14,384	40,522	28,538
1958.....	<sup>†</sup> 311,471	<sup>†</sup> 309,699	10,679	42,287	63,650	34,867	37,979	14,908	37,622	16,717	43,340	30,800
1959.....	<sup>†</sup> 339,091	<sup>†</sup> 338,350	10,522	44,744	68,886	37,294	44,823	17,421	40,623	18,045	47,281	31,328
1959: November ..	26,100	22,219	783	3,043	<sup>†</sup> 3,808	1,777	3,453	1,135	2,861	1,158	3,552	27,794
December ..	24,111	20,577	641	2,429	3,387	1,807	3,260	1,079	2,772	1,183	3,332	31,328
1960: January ....	18,787	12,909	400	1,817	1,393	574	2,418	652	1,863	782	2,440	37,088
February....	16,182	14,698	420	1,930	1,812	772	2,514	814	2,096	969	2,774	38,666
March.....	18,538	17,812	476	2,033	2,082	893	2,526	934	3,062	1,394	3,759	39,161
April.....	27,185	27,638	933	3,900	4,860	2,576	3,929	1,668	3,586	1,617	3,823	38,542
May.....	32,033	30,468	1,001	4,438	6,227	3,074	4,095	<sup>†</sup> 1,622	3,565	1,732	3,903	40,081
June.....	31,390	34,363	1,120	5,115	7,869	3,937	4,287	1,699	3,529	1,786	4,143	37,667
July.....	31,982	32,964	1,064	4,635	7,946	4,215	3,854	1,672	3,114	1,629	4,035	36,685
August.....	33,270	36,623	1,131	4,994	8,979	4,979	4,196	1,859	3,283	1,907	4,479	33,258
September..	31,130	33,866	975	4,110	8,455	4,827	3,587	1,724	<sup>†</sup> 3,462	1,842	4,158	30,509
October ....	31,449	33,179	1,044	4,218	8,345	4,432	4,021	1,630	2,909	1,658	4,178	28,725
November ...	26,406	25,188	931	3,394	4,991	2,415	3,712	1,433	2,983	1,393	3,193	29,985
Percent change												
November 1959-60	+1	+13	+19	+12	+31	+36	+7	+26	+4	+20	+10	+8
12 months ending—												
November 1959-60	-5	-4	-2	-2	-1	-6	-4	-1	-12	-1	-7	.....

Table compiled by Department of Commerce (BDSA) from data reported by Department of Interior Bureau of Mines. \*Data on shipments to Alaska, Hawaii, and foreign countries and data on finished cement used in the manufacture of prepared masonry cement are included in total shipments but are excluded from regional data.

**Table F-8.—Shipments of Asphalt Products and Gypsum Products**

Period	Asphalt products (thousands of squares) <sup>1</sup>				Gypsum products <sup>2</sup> (million square feet)	
	Prepared roofing	Siding	Insulated brick siding	Saturated felts <sup>3</sup>	Board	Lath
1955.....	62,582	1,288	2,195	34,629	4,946	2,940
1956.....	57,590	1,208	2,055	29,774	4,824	2,675
1957.....	53,326	1,036	1,764	30,761	4,505	2,224
1958.....	58,228	1,040	1,616	31,840	5,263	2,151
1959.....	59,528	935	1,516	34,225	6,343	2,346
1959: November.....	3,752	76	93	2,220	1,501	529
December.....	2,866	51	59	2,053		
1960: January.....	2,632	52	46	1,865	1,338	456
February.....	3,322	63	56	2,394		
March.....	3,746	56	72	2,496	1,603	515
April.....	4,017	48	89	2,282		
May.....	5,268	62	106	2,703	1,628	531
June.....	5,981	72	132	2,988		
July.....	6,002	78	112	3,090		
August.....	6,738	84	142	3,333		
September.....	6,770	96	125	3,165		
October.....	5,951	101	117	2,918		
November.....	4,537	84	82	2,646	.....	.....
Percent change						
November 1959-60.....	+21	+11	-12	+19	4-8	4-22
12 mos. ending—						
November 1959-60.....	-2	-10	-25	-6	5-4	5-14

Table compiled by Department of Commerce (BDSA). Sources: <sup>1</sup> Department of Commerce, Bureau of the Census; <sup>2</sup> Department of Interior, Bureau of Mines (quarterly). <sup>3</sup> Includes data for tar saturated as well as asphalt saturated felts. <sup>4</sup> 3rd quarter 1959-60.

Table F-9.—Clay Construction Products: Production and Shipments

Period	Brick, common and face (million brick)		Structural clay tile (thousand tons)		Vitrified clay sewer pipe (thousand tons)		Hollow facing tile (million brick equivalent)		Floor and wall tile, glazed and unglazed (thousand square feet)	
	Produc- tion	Ship- ments	Produc- tion	Ship- ments	Produc- tion	Ship- ments	Produc- tion	Ship- ments	Produc- tion	Ship- ments
1955.....	7,902	7,741	935	929	2,112	2,056	534	522	233,001	232,802
1956.....	8,085	7,382	862	750	2,154	2,039	576	535	245,996	227,369
1957.....	6,658	6,306	687	641	1,836	1,629	465	441	216,552	211,635
1958.....	6,489	6,459	574	543	1,773	1,772	484	453	221,768	215,710
1959.....	7,336	7,258	551	521	2,025	1,973	445	412	258,631	252,545
1959: October.....	695	654	49	44	191	186	39	38	24,720	23,956
November.....	620	543	48	35	161	146	35	31	23,080	20,612
December.....	572	464	38	34	166	131	35	30	23,037	20,411
1960: January.....	479	351	39	34	145	107	28	26	21,528	18,685
February.....	476	370	36	34	149	106	29	27	21,665	18,417
March.....	525	391	36	36	160	116	33	27	23,246	20,273
April.....	600	644	44	50	159	175	31	32	21,473	19,188
May.....	651	673	45	50	167	177	34	37	21,247	20,417
June.....	651	686	47	47	184	191	36	38	20,549	22,108
July.....	609	625	46	45	165	180	35	36	17,095	19,361
August.....	674	665	46	45	187	199	41	40	20,483	21,049
September.....	627	610	40	40	170	187	39	37	19,883	19,864
October.....	604	596	43	41	169	169	39	38	19,002	18,858
Percent change										
October 1959-60.....	-13	-9	-12	-6	-11	-9	(1)	+1	-23	-21
12 mos. ending Oct. 1959-60.	-2	-9	-9	-9	-1	-4	-9	-6	(1)	-3

Table compiled by Department of Commerce (BDSA).

<sup>1</sup> Change of less than one-half of 1 percent.

Table F-10, Imports and Exports of Selected Construction Materials, which was formerly published quarterly, will appear annually in the June issue.

## Part G.—Contract Construction Employment

Table G-1.—Number of Employees by Type of Contractor

Period	All contractors*	Building contractors							Nonbuilding contractors		
		All building contractors	General contractors	Special trades					All non-building contractors	Highway and street	Other heavy construction
				All special trades	Plumbing and heating	Painting and decorating	Electrical work	Other trades			
Number of employees (in thousands)											
1955.....	2,759	2,243	922.6	1,320.8	317.0	162.3	168.4	673.1	516	232.4	284.0
1956.....	2,929	2,336	970.0	1,366.0	328.7	170.9	186.2	680.2	593	257.9	335.3
1957.....	2,808	2,222	869.3	1,352.7	321.7	164.2	188.9	677.9	586	250.1	335.6
1958.....	2,648	2,079	750.6	1,328.6	303.6	169.6	173.2	682.2	569	256.0	313.2
1959.....	2,788	2,183	757.9	1,424.7	310.5	201.4	174.2	738.6	584	271.2	312.7
1959: November...	2,877	2,269	764.8	1,504.6	314.5	222.0	180.1	788.0	587	270.8	316.6
December...	2,719	2,181	725.5	1,455.2	308.6	204.9	176.3	765.4	518	220.5	297.0
1960: January...	2,472	2,016	660.5	1,355.1	296.6	183.5	171.0	704.0	437	170.0	267.3
February...	2,408	1,960	638.7	1,321.7	287.5	178.2	169.3	686.7	429	167.5	261.4
March.....	2,331	1,896	609.8	1,286.6	281.2	179.9	165.3	660.2	416	161.5	254.8
April.....	2,611	2,088	705.4	1,382.7	291.1	196.3	170.0	724.3	502	222.0	279.7
May.....	2,853	2,236	774.2	1,461.9	304.2	222.0	176.5	759.2	594	284.2	310.1
June.....	3,002	2,334	816.8	1,517.6	311.3	234.2	187.9	784.2	643	315.0	328.1
July.....	3,125	2,439	857.9	1,580.6	315.5	251.6	199.6	813.9	659	320.1	338.7
August.....	3,157	2,469	857.3	1,611.7	321.6	255.9	206.7	827.5	661	322.9	338.0
September...	3,095	2,431	836.7	1,594.5	327.3	245.1	202.2	819.9	638	314.0	323.9
October....	3,031	2,386	809.6	1,575.9	319.5	234.6	199.3	822.5	620	307.7	312.5
November...	2,876	2,284	773.3	1,511.1	312.8	220.7	195.4	782.2	569	272.7	295.8
December..	**2,551										
Percent change											
Oct.-Nov. 1960....	- 5.1	- 4.3	- 4.5	- 4.1	- 2.1	- 5.9	- 2.0	- 4.9	- 8.2	-11.4	- 5.3
12 mos. ending in November 1959-60..	(1)	+ 2.8	+ .2	+ 4.2	- 1.3	+ 9.7	+ 6.1	+ 4.6	- 4.4	- 5.3	- 3.7

Source: Department of Labor, Bureau of Labor Statistics. \*Beginning with January 1959 data includes estimated data for Alaska and Hawaii. No estimates are available by type of contractor. \*\*Preliminary estimate, not available by type of contractor. Percent change: November-December 1960, -11.3. December 1959-60, -6.2. †Calculations will not be made until December 1960 totals are compiled when comparable 50-state, 12-month moving totals will be available. ‡Revised.

Table G-2.—Number of Employees, Seasonally Adjusted  
(In thousands)

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
1948.....	2,120	2,015	2,065	2,105	2,136	2,184	2,199	2,212	2,220	* 2,229	2,249	2,251	2,169
1949.....	2,222	2,171	2,146	2,128	2,124	2,130	2,157	2,176	2,197	2,192	2,190	2,141	2,165
1950.....	2,119	2,101	2,105	2,173	2,236	2,337	2,405	2,451	2,473	2,502	2,517	2,471	2,331
1951.....	2,526	2,521	2,569	2,593	2,596	2,613	2,633	2,641	2,630	2,653	2,606	2,620	2,603
1952.....	2,599	2,624	2,588	2,586	2,597	2,645	2,658	2,672	2,682	2,648	2,650	2,632	2,634
1953.....	2,647	2,669	2,653	2,638	2,613	2,598	2,588	2,596	2,612	2,632	2,623	2,626	2,622
1954.....	2,533	2,583	2,600	2,614	2,603	2,599	2,591	2,594	2,586	2,584	2,618	2,615	2,593
1955.....	2,624	2,618	2,703	2,759	2,813	2,823	2,829	2,813	2,810	2,777	2,760	2,750	2,759
1956.....	2,768	2,802	2,834	2,891	2,964	3,079	2,984	3,007	2,980	2,951	2,926	2,917	2,929
1957.....	2,798	2,831	2,859	2,855	2,891	2,899	2,847	2,805	2,782	2,763	2,710	2,679	2,808
1958.....	2,652	2,455	2,573	2,624	2,698	2,698	2,693	2,711	2,698	2,698	2,690	2,550	2,648
1959.....	2,650	2,626	2,719	2,829	2,787	2,799	2,800	2,814	2,776	2,762	2,792	2,800	2,767
1960.....	2,775	2,781	2,601	2,752	2,783	2,790	2,858	2,835	2,800	† 2,804	† 2,789	2,624	
Percent change, 1959 to 1960													
	+ 4.7	+ 5.9	- 4.3	- 2.7	- .1	- .3	+ 2.1	+ .7	+ .9	† + 1.5	† - .1	- 6.3	

Source: Department of Labor, Bureau of Labor Statistics. Note: Data for Alaska and Hawaii are not included.



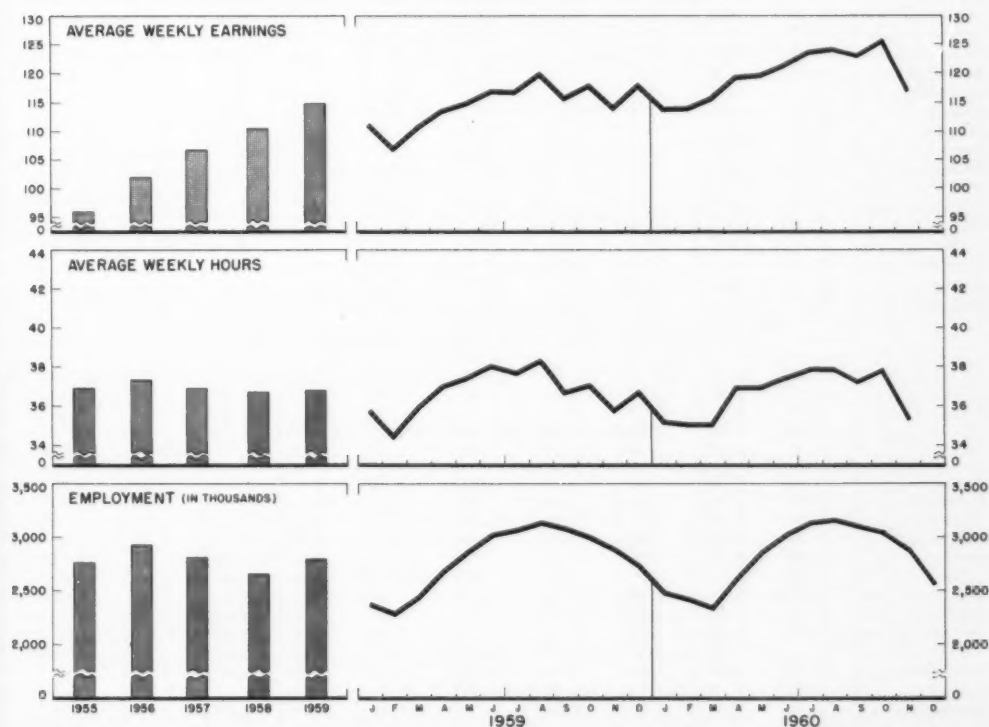
Table G-3.—Indexes of Aggregate Weekly Construction Worker Man-Hours  
(1947-49 = 100)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
1948.....	89.6	81.3	86.7	95.0	102.2	111.9	115.1	117.3	116.2	113.3	106.6	105.4	103.4
1949.....	94.2	88.9	89.2	95.0	103.1	106.8	110.5	114.2	111.5	111.4	104.4	94.9	102.0
1950.....	84.6	79.5	83.7	95.8	106.1	116.7	122.1	129.5	126.1	128.9	123.9	112.7	109.1
1951.....	106.4	99.3	105.4	116.9	126.4	131.8	137.7	141.1	138.5	139.8	124.2	121.6	124.1
1952.....	111.1	112.3	108.3	117.5	125.4	136.8	138.9	143.2	144.0	139.9	128.2	123.9	127.5
1953.....	109.1	108.7	109.1	115.8	122.6	130.4	132.0	137.2	131.7	136.7	126.7	117.2	123.1
1954.....	95.5	102.8	106.4	113.5	120.3	128.0	131.4	134.0	128.6	126.6	123.3	114.4	118.9
1955.....	101.4	98.6	108.4	115.8	129.8	137.0	144.0	144.3	146.6	138.3	125.6	121.1	125.9
1956.....	108.1	108.5	109.2	123.6	136.4	152.6	151.5	157.1	155.4	151.1	137.6	128.9	135.0
1957.....	105.6	112.2	114.8	122.3	131.9	141.2	143.2	145.5	141.3	137.0	120.2	112.9	127.3
1958.....	102.4	85.9	98.9	109.1	122.7	128.1	132.1	137.9	136.1	135.3	123.8	105.7	118.2
1959.....	99.7	92.0	103.7	119.0	129.2	138.9	140.1	146.1	136.5	133.7	123.3	118.9	123.4
1960.....	101.6	98.5	94.9	114.3	126.3	135.5	142.9	144.9	139.3	<sup>a</sup> 138.3	<sup>a</sup> 121.8	102.0	
Percent change, 1959 to 1960													
	+ 1.9	+ 7.1	- 8.5	- 4.0	- 2.2	- 2.4	+ 2.0	- .8	+ 2.1	<sup>a</sup> + 3.4	<sup>a</sup> - 1.2	- 14.2	

Source: Department of Labor, Bureau of Labor Statistics. Note: Data for Alaska and Hawaii are not included. <sup>a</sup>Revised.

Chart 5.

### Contract Construction Employment, Hours, and Earnings



SOURCE: DEPARTMENT OF LABOR

CONSTRUCTION REVIEW C.D. 60-10-W

Table G-4.—Hours and Gross Earnings of Construction Workers, by Type of Contractor

Period	Building contractors								Nonbuilding contractors		
	All contractors	All building contractors	General contractors	Special trades					All non-building contractors	Highway and street	Other heavy construction
				All special trades	Plumbing and heating	Painting and decorating	Electrical work	Other trades			
Average weekly earnings											
1955.....	\$95.94	\$96.29	\$90.22	\$100.83	\$106.40	\$94.38	\$116.52	\$96.21	\$95.11	\$91.27	\$98.50
1956.....	101.83	101.92	95.04	107.16	112.31	99.81	125.22	102.39	101.59	97.63	104.94
1957.....	106.64	106.86	98.89	112.17	118.87	103.75	132.10	106.30	105.07	98.66	110.15
1958.....	110.47	110.67	102.53	115.28	123.23	107.95	135.97	109.31	109.47	104.14	114.26
1959.....	114.82	115.28	106.39	120.27	128.56	113.40	142.08	113.80	113.24	108.09	118.40
1959: November.....	113.88	114.14	103.93	120.04	129.08	113.86	142.51	113.23	110.87	104.80	116.74
December.....	117.81	119.13	108.78	124.53	133.32	115.87	148.19	118.27	113.47	103.88	120.87
1960: January.....	113.72	114.87	104.88	119.72	129.83	111.89	146.30	111.54	108.00	96.75	115.50
February.....	113.75	114.22	104.31	119.71	128.43	110.22	144.77	112.53	111.16	101.01	117.56
March.....	115.50	115.60	104.83	120.74	130.27	113.91	146.69	112.83	116.91	105.69	124.26
April.....	119.19	119.19	109.50	124.57	131.98	115.58	147.07	118.99	117.96	112.36	123.51
May.....	119.56	119.91	110.26	124.93	132.68	116.60	148.23	119.70	118.03	111.90	123.86
June.....	121.18	121.24	111.13	126.69	134.87	118.62	149.38	121.41	121.06	117.43	125.15
July.....	123.61	123.68	113.77	128.83	135.20	120.70	150.93	124.31	124.91	122.36	127.80
August.....	124.31	123.68	113.52	128.82	135.58	119.65	151.32	124.55	126.90	124.26	129.97
September.....	123.13	122.40	112.73	127.44	134.61	119.70	151.70	121.80	126.42	123.98	128.88
October.....	125.50	125.17	114.66	129.93	137.52	122.11	155.62	124.23	128.65	126.43	131.02
November.....	117.20	117.30	108.68	122.12	129.60	114.22	148.54	115.55	115.03	106.75	123.70
Average weekly hours											
1955.....	36.9	36.2	35.8	36.4	38.0	34.7	39.1	35.5	40.3	41.3	39.9
1956.....	37.3	36.4	36.0	36.7	38.2	34.9	39.5	35.8	40.8	41.9	39.4
1957.....	36.9	36.1	35.7	36.3	38.1	34.7	39.2	35.2	39.8	40.6	39.2
1958.....	36.7	35.7	35.6	35.8	37.8	34.6	38.3	34.7	40.1	41.0	39.4
1959.....	36.8	35.8	35.7	35.9	37.7	35.0	38.4	34.8	40.3	41.1	39.6
1959: November.....	35.7	34.8	34.3	35.1	37.2	34.4	37.8	33.9	38.9	39.4	38.4
December.....	36.7	36.1	35.9	36.2	38.2	34.9	39.1	35.2	39.4	39.2	39.5
1960: January.....	35.1	34.6	34.5	34.6	37.2	33.4	38.4	33.0	37.5	37.5	37.5
February.....	35.0	34.3	34.2	34.4	36.8	32.9	37.8	33.0	38.2	38.7	37.8
March.....	35.0	34.2	33.6	34.4	36.8	33.8	38.1	32.8	39.1	39.0	39.2
April.....	36.9	35.9	35.9	35.9	37.6	34.4	38.3	35.1	41.1	42.4	40.1
May.....	36.9	35.9	35.8	35.9	37.8	34.6	38.5	35.0	40.7	41.6	39.7
June.....	37.4	36.3	36.2	36.3	38.1	35.2	38.7	35.5	41.6	42.7	40.5
July.....	37.8	36.7	36.7	36.6	38.3	35.5	38.7	35.9	42.2	43.7	40.7
August.....	37.9	36.7	36.5	36.7	38.3	35.4	38.9	36.1	42.3	43.6	41.0
September.....	37.2	36.0	35.9	36.0	37.6	35.0	38.7	35.1	42.0	43.5	40.4
October.....	37.8	36.6	36.4	36.6	38.2	35.6	39.1	35.8	42.6	43.9	41.2
November.....	35.3	34.4	34.5	34.4	36.1	33.3	37.7	33.3	38.6	38.4	38.9
Average hourly earnings											
1955.....	\$2.60	\$2.66	\$2.52	\$2.77	\$2.80	\$2.72	\$2.98	\$2.71	\$2.36	\$2.21	\$2.50
1956.....	2.73	2.80	2.64	2.92	2.94	2.86	3.17	2.86	2.49	2.33	2.63
1957.....	2.89	2.96	2.77	3.09	3.12	2.99	3.37	3.02	2.64	2.43	2.81
1958.....	3.01	3.10	2.88	3.22	3.26	3.12	3.55	3.15	2.73	2.54	2.90
1959.....	3.12	3.22	2.98	3.35	3.41	3.24	3.70	3.27	2.81	2.63	2.99
1959: November.....	3.19	3.28	3.03	3.42	3.47	3.31	3.77	3.34	2.85	2.66	3.04
December.....	3.21	3.30	3.03	3.44	3.49	3.32	3.79	3.36	2.88	2.65	3.06
1960: January.....	3.24	3.32	3.04	3.46	3.49	3.35	3.81	3.38	2.88	2.58	3.08
February.....	3.25	3.33	3.05	3.48	3.49	3.35	3.83	3.41	2.91	2.61	3.11
March.....	3.30	3.38	3.12	3.51	3.54	3.37	3.85	3.44	2.99	2.71	3.17
April.....	3.23	3.32	3.05	3.47	3.51	3.36	3.84	3.39	2.87	2.65	3.08
May.....	3.24	3.34	3.08	3.48	3.51	3.37	3.85	3.42	2.90	2.69	3.12
June.....	3.24	3.34	3.07	3.49	3.54	3.37	3.86	3.42	2.91	2.75	3.09
July.....	3.27	3.37	3.10	3.52	3.53	3.40	3.90	3.46	2.96	2.80	3.14
August.....	3.28	3.37	3.11	3.51	3.54	3.38	3.89	3.45	3.00	2.85	3.17
September.....	3.31	3.40	3.14	3.54	3.58	3.42	3.92	3.47	3.01	2.85	3.19
October.....	3.32	3.42	3.15	3.55	3.60	3.43	3.98	3.47	3.02	2.88	3.18
November.....	3.32	3.41	3.15	3.55	3.59	3.43	3.94	3.47	2.98	2.78	3.18
Percent change, November 1959-60											
Avg. weekly earnings..	+2.9	+2.8	+4.6	+1.7	+4	+3	+4.2	+2.0	+3.8	+1.9	+6.0
Avg. weekly hours....	-1.1	-1.2	.6	-2.0	-3.0	-3.2	-3	-1.8	-8	-2.5	1.3
Avg. hourly earnings...	+4.1	+4.0	+4.0	+3.8	+3.5	+3.6	+4.5	+3.9	+4.6	+4.5	+4.6

Source: Department of Labor, Bureau of Labor Statistics. Note: Data for Alaska and Hawaii are not included.

Revised.

# INDEX TO TABLES

TABLE	PAGE
<b>PART A--CONSTRUCTION PUT IN PLACE</b>	
New Construction Put in Place in the United States:	
A-1. Value for the Current Month and Relative Changes.....	14
A-1. (Sup.) Value, by Month, January 1959--Sept. 1960 ( <i>last published January 1961</i> ).....	15
A-2. Seasonally Adjusted Annual Rates in Current and Constant Dollars.....	18
A-3. Public: Value, by Source and Type of Funds and Ownership.....	
<b>PART B--HOUSING</b>	
Housing Starts in the United States:	
B-1. By Ownership and Type of Structure.....	20
B-2. By Location.....	21
B-3. Average Construction Cost.....	22
Housing in Government Programs:	
B-4. In Government Insurance Programs.....	23
B-5. Nonfarm Mortgage Recordings of \$20,000 or Less.....	23
B-6. Publicly Owned Housing Starts.....	24
Housing Vacancy Rates:	
B-7. By Status, Condition, Region, and Metropolitan Location.....	24
<b>PART C--BUILDING PERMITS</b>	
In 10,000 Permit-Issuing Places in the United States:	
C-1. Private Construction: Total Valuation, by Type of Construction.....	27
C-2. New Dwelling Units: Valuation and Number, by Ownership and Type of Structure.....	27
In 3,014 Permit-Issuing Places in the United States:	
C-3. New Dwelling Units: Valuation and Number, by Region and Type of Structure.....	28
C-4. Private Construction: Valuation by Region and Type of Construction.....	29
C-5. Private Nonresidential Construction: Number, by Type of Building.....	30
C-6. Private Construction: Valuation, by State.....	31
C-7. New Dwelling Units: Number, by State.....	32
C-8. Private Construction: Valuation, by Month in Selected Metropolitan Areas.....	33
C-9. New Dwelling Units: Number in Selected Metropolitan Areas.....	33
C-10. Private Construction: Valuation for the Current Year in Selected Metropolitan Areas, by Type of Construction.....	34
<b>PART D--CONTRACT AWARDS</b>	
Public Construction:	
D-1. By Ownership and Type of Construction.....	35
D-2. Highway Construction.....	37
U. S. Summaries from Reports of:	
D-3. The F. W. Dodge Corporation.....	38
D-4. The Engineering News-Record.....	38
<b>PART E--COSTS AND PRICES</b>	
E-1. Construction Cost Indexes.....	39
E-2. Indexes of Wholesale Prices of Selected Materials Used in Construction.....	40
Union Hourly Wage Scales for Selected Building Trades: ( <i>Quarterly: last published December 1960</i> )	
E-3. Indexes	
E-4. Estimated Average Rates and Ranges in Rate Levels	
E-5. For 100 Cities	
<b>PART F--CONSTRUCTION MATERIALS</b>	
Production, Shipments, Stocks:	
F-1. Indexes of Output.....	45
F-2. Lumber and Wood Products.....	46
F-3. Millwork Products, Paint, Varnish, and Lacquer.....	46
F-4. Iron and Steel Products.....	47
F-5. Heating and Plumbing Equipment.....	47
F-6. Plumbing Fixtures ( <i>Quarterly: last published January 1961</i> ).....	47
F-7. Portland Cement.....	48
F-8. Asphalt Products, Gypsum Products.....	48
F-9. Clay Construction Production.....	49
F-10. Imports and Exports of Selected Construction Materials ( <i>Annually: last published June 1960</i> ).....	
<b>PART G--CONTRACT CONSTRUCTION EMPLOYMENT</b>	
G-1. Number of Employees, by Type of Contractor.....	50
G-2. Number of Employees (Seasonally Adjusted).....	50
G-3. Indexes of Aggregate Weekly Man-Hours.....	51
G-4. Hours and Earnings of Construction Workers.....	52
G-5. Number of Employees, by State and Area ( <i>Quarterly, last published December 1960</i> ).....	

## THE U.S. INDUSTRIAL OUTLOOK FOR 1961



### *91 Selected Industries*

- PROSPECTS FOR 1961
- REVIEW OF 1960
- BACKGROUND DATA
- STATISTICS

CHEMICALS AND ALLIED • COMMUNICATIONS • CONSTRUCTION  
BUILDING MATERIALS • CONSUMER PRODUCTS AND SERVICES  
CONTAINERS AND PACKAGING • FOREST PRODUCTS  
MACHINERY AND EQUIPMENT • METALS AND MINERALS

UNITED STATES DEPARTMENT OF COMMERCE  
BUSINESS AND DEFENSE SERVICES ADMINISTRATION

---

— A COMPILATION OF YEAREND RELEASES —

---

NOW AVAILABLE FROM SUPERINTENDENT OF DOCUMENTS  
U.S. Government Printing Office, Washington 25, D. C.  
Or any Department of Commerce Field Office

Approximately 275 pp. with index Price \$1.75

